LEVCHENKO, D.N.; YERMILOV, A.S.; TEPLYKH, G.A.; VOLOEUYEV, N.K.

Use of ultrasound for deemulsifying stable petroleum emulsions.

Prim. ul'traskust. k issl. veshch. no.14:337-343 *61. (MIRA 14:12)

(Ultrasonic waves--Industrial applications) (Emulsions)

L 42209-66 E/II(m)/T ACC NR. AT6013184 SOURCE CODE: UR/0000/61/000/000/0337/0343 AUTHORS: Levchenko, D. N.; Yermilov, A. S.; Teplykh, G. A.; Volobuyev, N. K. ORG: none TITLE: Application of ultrasound in de-emulsification of stable oil emulsions SOURCE: Moscow. Oblastnoy pedagogicheskiy institut., Primeneniye ul'traakustiki k issledovaniyu veshchestva, no. 14, 1961, 337-343 TOPIC TAGS: ultrasound, emulsion, ultrasonic equipment, ultrasonic petroleum purification, ultrasonic vibration emitter, barium titanate / OP-10 de-emulsifier, VNII NP-58 de-emulsifier, KS-59 de-emulsifier ABSTRACT: De-emulsification by means of ultrasound was studied on stable, aged, oil-water emulsions from traps and storehouses of the Moscow refineries. Three ultrasound generators (3.2 and 0.6 kilowatt capacities) and vibrators (magnetostrictive, barium tiltanate, flat, and focusing) were employed in the study. The degree

of de-emulsification was determined as a function of the height of the sonicated emulsion layer, sonication time, and ultrasound field intensity. It was established that the investigated emulsions can be destroyed when treated with ultrasound with a frequency of 20-750 kHz. The de-emulsification degree increases with increased ultrasound field intensity and time of treatment, and decreases with increased emulsion layer. The sound frequency is inversely proportional to the optimal thickness

Card 1/2

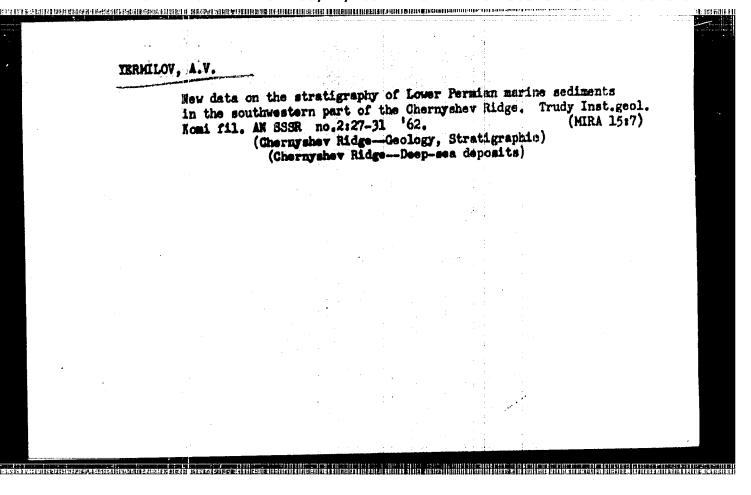
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of the destroyed em	ulsion. The most promising wasters used in conjunction waster, has: 2 tables and 8 figures.	rith de-emulaifiera OP	itanate pipes
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YERMILOW, A.V., gorney insh.; ZAGORUYKO, G.K., gorney insh.

Magnitude of edvance in stripping operations at the Ufaley open-pit mines. Gor. shur. no. 12:19-22 D '65. (NURA 18:12)

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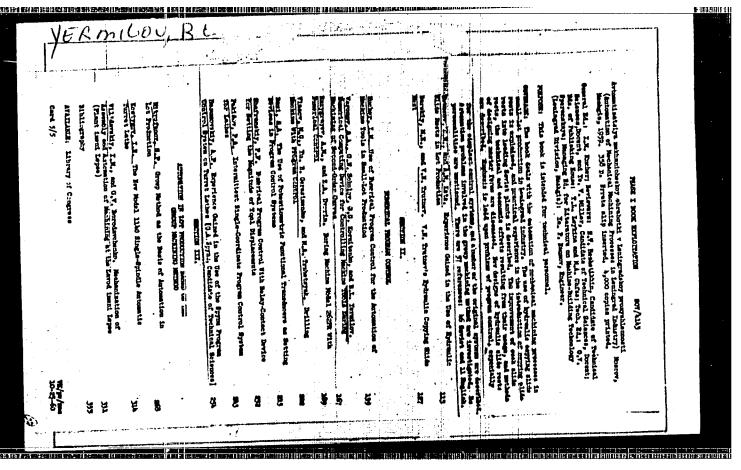


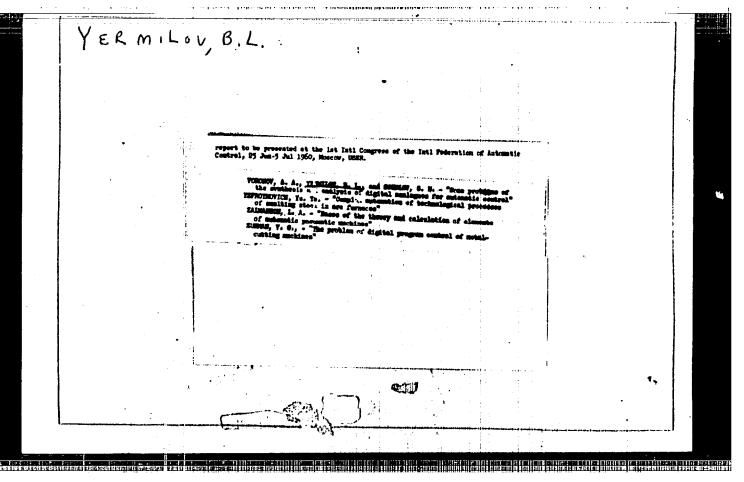
KIM, M.V.; BITADZE, M.A.; YERMILOV, B.F.; ZYDEL', A.I.; KUSHREV,
A.P.; LAZAREV, N.N.; MILAV'YEV, D.M.; BONDAREV, P.D., kand.
teldhn. nauk, nauchnyy red.; OSENKO, L.M., red. 1ad-vn; RODIOHOVA, V.H.,
telchn.red.

[Erection of foundations under permafrost conditions; from
practice used in the Norilak region]Vozvedenie fundamentov v
usloviiakh vechnomerzlykh gruntov; iz opyta Noril'skogo raiona.
Moskva, Gosstroiizdat, 1962. 53 p. (MIRA 15:9)

1. Russia (1917- R.S.F.S.R.) Krasneyarskiy ekonomicheskiy administrativnyy rayon. Sovet narodnogo khozyaystva. (Foundations) (Noril'sk-Frozen ground)

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YERMILOV, B.L.

PHASE I BOOK EXPLOITATION 80V/5094

Voronov, Avenir Arkad'yevich, A. R. Garbusov, B. L. Yermilov, M. B. Ignat'yew, G. G. Kornitenko, G. M. Sokolov and Yang Hel-Theng

Tsifrovyye smalogi dlya sistem avtomaticheskogo upravleniya; tsifrovyye rasnostnyye analizatory (Digital Analogs for Automatic Control Systems; Digital Differential Analyzers). Moscow, Isd-vo AN SSER, 1960. 195 p. Errata slip inserted. 7,000 copies printed.

Sponsoring Agency: Akademiya nauk SESR. Institut elektronekhaniki.

Ed.: A. A. Voronov, Doctor of Technical Sciences; Ed. of Publishing House: I. V. Barkovskiy; Tech. Ed.: V. T. Bochever.

PURPOSE: This book is intended to acquaint scientific and technical personnel with the latest developments in the field of computers.

I NST: I related Cleater and AN SSSR (for all skind the development in the field of computers and are not yet well elaborated theoretically. Some of the newest developments in combining universal digital machines

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Digital Analogs for Automatic (Cont.)

BOV/5094

with nonlinear interpolators, such as the Ferranti interpolator, are as yet unknown to Soviet readers. While the Soviet literature contains several works describing the principles of construction and operation of differential analyzers intended for operation as computers, the main emphasis in this book is on general methods of synthesizing those machines which are intended to work as systems of automatic control, and also on problems of accuracy in operation. At present digital analogs are used mostly for programmed control of metalworking machines, where several operations, such as preparing data for control, feeding them into the computer, the computing process, and the process of control, are involved. The book investigates only the computing units of the control system. The authors state that the error of integration can be reduced by increasing the number of columns of multidigit numbers in the addend registers or by transition to more accurate, though more complicated, algorithms of approximate integration. However, they find that this complicates the system, and suggest a method which permits simplifying the system while maintaining its accuracy; that is, proceeding from difference, instead of differential, equations. A digital analog based on such principles should be called a digital "difference" analyzer instead of "differential" analyzer. The book discusses problems

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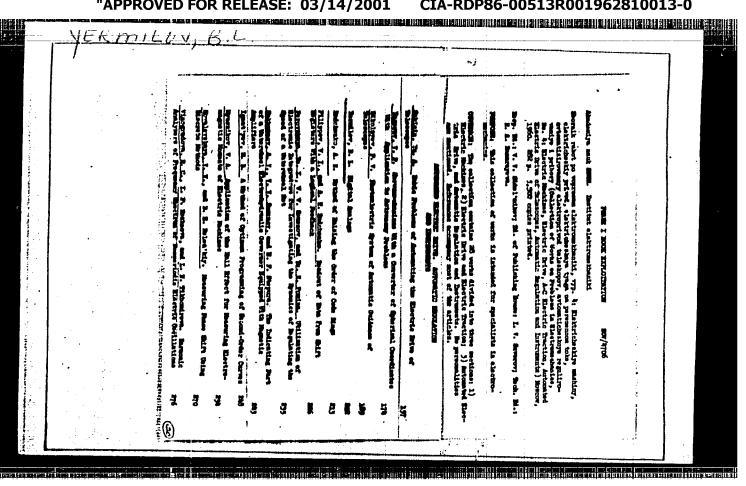
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Digital Analogs for Automatic (Cont.)

of synthesis and analysis of both difference and differential equations. Mays to reduce errors and simplify the arrangement of such computers are indicated. The book attempts to present certain theoretical developments in this field and as a first attempt does not claim to give a full solution of the problem. It also includes some general information on systems of computation and on their basic units and presents examples of difference analyzers developed at the institute of Electromechanics, AS USER. The introduction, pars. 1-6 and 8 of Ch. III, Ch. IV, pars. 1 and 4 of Ch. V, and pars. 3 and 4 of Ch. VIII were written by A. A. Voronov; pars. 1 and 2 of Ch. VIII by A. R. Garbusov; Ch. I by B. L. Yermilov; par. 7 of Ch. III and Appendix I by M. B. Ignat'yev; Ch. II by G. G. Kornitenko; and Ch. VI by G. N. Sokolov, all coworkers of the Institute of Electromechanics, AN USER. Pars. 2 and 3 of Ch. V were written by Yang Hei-Teeng, coworker of the Academy of Sciences, Chinese Reople's Republic, and Chapter VII was written jointly by A. A. Voronov and B. L. Yermilov. No personalities are mentioned. There are 76 references: 39 Soviet (including 1 in French and 1 translation) and 37

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AUTHOR:

Yermilov, B. L.

TITLE:

Digital analogs

PERIODICAL:

Referativnyy zhurmal, Mashinostroyeniye, no. 9, 1961, 19, abstract 9D135 ("Sb. rapot po vopr. elektromekhan. In-t elektromekhn.

AN SSSR*, 1960, no. 4, 202-213)

TEXT: It is pointed out that digital analogs combine the high precision of digital computors with the rapid action of mathematical models and are, above all, employed in carrying out individual mathematical operations. They are digital analogs of computers of continuous action. They are characterized by the fact that the preparation for the solution of the problem is carried out by methods used in continuous-action computers instead of digital coding methods. The rating of errors is effected by digital methods. The author analyzes the execution of an operation of raising to a square a variable magnitude with numerical pulse representation and monotonic character of its variations, and also the extraction of square and cubic roots. For the nonmonotonic variation of variable magnitudes reversible counters are used which register the increment

Card 1/2

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Digital analogs

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signs, the absolute magnitude of which is transmitted over several channels or on one channel but in different ways. The author enumerates the fields of application of digital analogs.

G. Flidlider

[Abstractor's note: Complete translation]

Card 2/2

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AUTHOR:

Yermilov, B.L.

TITLE:

Some types of functional digitizers

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 4, 1961, 21, abstract 4 Bl59 (V sb. Teoriya i primeneniye diskretn. avtomat. sistem, M., AN SSSR, 1960, 339-351)

TEXT: Program control of milling machines is considered. The control device consists of the pulse generator, adder and variable division-ratio pulse count divider. A description is given of the squaring and square root-extraction devices, the latter consisting of a pulse generator, two counters with their gating circuits, delay line, etc. The control device is set for obtaining functions of the type $y = a^2 - (a - x)^2$. The reversible polarity counter takes into account the sign of the increments of the variables. By replacing one of the adders with the subtracter, relations of the type

Card 1/2

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Some types of functional digitizers

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y $\sim \sqrt{a-x}$ can be obtained. More complex functions can be simulated by combining in succession the devices described, e.g. the successive connection of the squaring and square-root extracting devices produces the solution to the equation of the circle, $y \sim \sqrt{r^2 - x^2}$. 13 figures. 6 references. Abstracter's note: Complete translation

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Card 2/2

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AUTHOR:

Yermilov, B. L.

TITLE:

Digital analogoues

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 8, 1961, 50-51, abstract 8V305. ("Sb. rabot po vopr. elektromekhan. In-t elektromekhan. AN SSSR", 1960, vyp 4, 202-213)

TEXT: It is mentioned that a high velocity and exactness of the calculations is demanded for the application of computing machines in systems of automatic control. In the last years, digital analogues of the continuously operating computing instruments are developed, whereby the representation of the variables with the aid of pulse count and code pulse is used. The non-linear functional transformations are realized in the digital analogues on the basis of methods of numerical integration. The author considers a number of digital analogues for operations: a digital analogues for the quadrature of the variable x(t); an analogue realizing the operation $y = a^2 - (a-x)^2$; a digital analogue for extracting the square root, an analogue for extracting the cubic root. Furthermore, the principle of the union of operational digital analogues for the performance of complicated function opera-

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Digital analogues

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tions is considered. The author directs to the good chances for the use of digital analogues in automatic control systems in practice, among them for program controls for metal shearing workbenches.

[Abstracter's note: Complete translation.]

Card 2/2

31014 8/573/61/000/005/004/023 D201/D305

9,7100

Card 1/4

Yermilov, B.L., and Radchenko, A.N. AUTHORS:

Digital analogues using shift registers with TITLE:

logic feedback

Akademiya nauk SSSR. Institut elektromekhaniki. SOURCE:

Sbornik rabot po voprosam elektromekhaniki. no. 5, Moscow, 1961. Avtomatizatsiya, telemekhanizatsiya

i pribosostroyeniye, 39 - 53

TEXT: In the present article, the method is considered of synthesizing digital analogues which, being slow in their operation, permit a decrease substantially, in the power consumption and their overall dimensions and an increase somewhat in their reliability. For the company unit it is proposed using a shift register with feedback logic. The input of the computing bloc consists of shift pulses, its capacity being determined by the logic structure of the feedback. A register with feedback may perform integration and other operations by means of a unitary code; thus the necessary re-

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Digital analogues using shift ...

quirement in digital analogues with logic feedback is the transformation of a ring code into a unitary one. The basic computing unit consists of two manitypes of registers with logic feedback as shown in Fig. 1 A and B. In circuit A the feedback is formed by the logic of

 $\psi_{A} = a\overline{d} + \overline{a}\overline{d}$

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and in that of circuit B by

 $\Psi_{\rm R} = \bar{a}b + a\bar{b}(c + d)$.

The register B is the reverse of A, with a period of 15. The two registers are connected together to form the basic element of a digital analogue. The first takes the role of an integrator, producing data in a ring code, the second – acts as a decoder, transforming the ring code into the unitary one. Squaring and taking of the square roots are discussed with the example of reproducing the function $z = x^2$ for squaring and $z^2 - x = 0$ for the square root. Their solution lead to the bloc diagrams of Fig. 4a and 4b, using the same register circuits as shown in Fig. 1 with delay lines between Card 2/4

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Digital analogues using shift ...

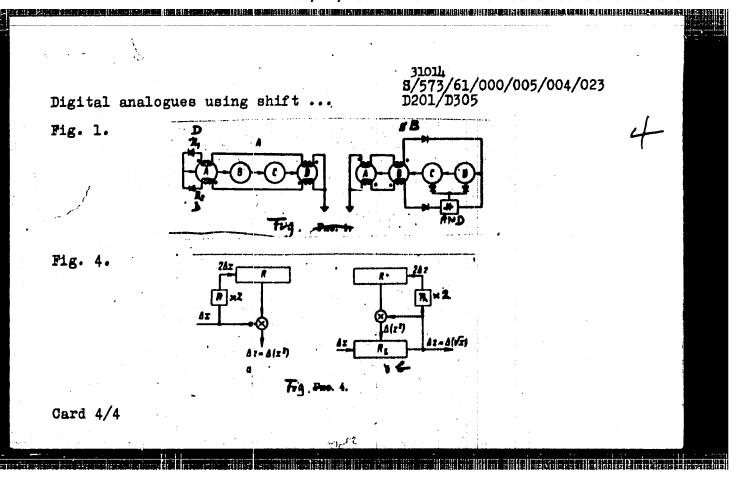
the stages. The maximum value of the input variable is stated to be $x_{max} < \frac{m+1}{2}$ for both analogues, where m is the capacity of the register. The digital analogue described may also reproduce sine and cosine functions as the result of solving the equation $\frac{d^2y}{dt^2} + y = 0$ with initial conditions $t_0 = 0$, $y_0 = R$ and $x_0 = 0$, where $x = \frac{dy}{dt}$. The solution of this equation is

 $x = R \sin t,$ $y = R \cos t,$

(13)

which corresponds in the plane xy to the equation of a circle with the center at the origin $x^2 + y^2 = R^2$. Practical recommendations are also given on the capacity of registers, the methods of their interconnections etc. There are 8 figures, 3 tables and 5 Sovietbloc references.

Card 3/4



16.6800 (1121, 1327, 1329)

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AUTHORS:

Voronov, A.A., Yermilov, B.L., and Sokolov, G.N.

(USSR)

TITLE:

Certain problems of synthesis and analysis of digital

automatic control analogues

SOURCE:

International Federation of Automatic Control. 1st Congress, Moscow, 1960. Statisticheskiye metody issledovaniya. Teoriya struktur, modelirovaniye, terminologiya, obrazovaniye. Moscow, Izd-vo AN SSSR, 1961,

407 - 420

TEXT: The author analyze the following types of function generators: 1) Generation of polynomials. The prototype of this digital analogue may be said to be the circuit of a continuous analogue, with series connected r+1 integrators. With a $y^r(0) = \text{const.}$ input, such a circuit generates a polynomial of t of the r-th degree, whose coefficients depend on the initial values of integrands. By adding a feed-back, an arrangement may be obtained for reproducing Card 1/42

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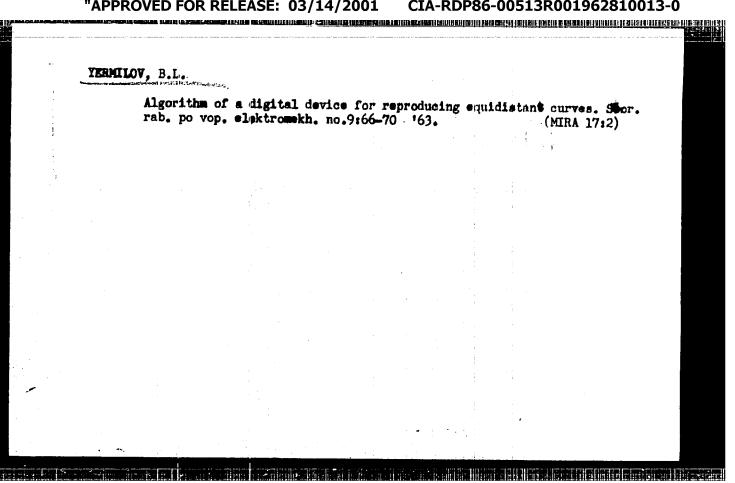
Certain problems of synthesis and ...

the inverse function $y = \sqrt{n}$. 2) Generation of function Axy + Bx + Cy. This problem may be solved using the circuit of B.L. Yermilov for multiplication by each other of two variables (Fig. 2). 3) Generation of circles. The example of digital analogue as evolved by G. N. Sokolov (Fig. 3) is considered. The generation of a circle may also be obtained by the method of B.L. Yermilov. This circuit (Fig. 4) solves

 $y = \sqrt{R^2 - x^2} . \tag{19}$

It is of interest in that the error, due to limiting the digits, does not exist. The cot is actually a combination of the squaring and root extracting circuits suggested by B.L. Yermilov and V.V. Semenov. The circuits described show how, from given properties of a problem, a substantial simplification of circuit and its number of components may be obtained. There are 2 tables, 5 figures and 6 references: 3 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: Anon. Computing machines. Mech. Eng., v. 73, p. 325-327, Apr. 1951; R.E. Sprague, Mathem. Tables and other Aids to Computation, no. 37, p.41-49,

Card 2/42



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INVENTOR: Yermilow, B. L.

ORG: None

TITLE: A device for division of two variables given in the form of increments. Class 42, No. 183488 [announced by the Institute of Electromechanics, State Committee on Electrical Engineering, State Planning Commission SSSR (Institut elektromechaniki Goskomiteta po elektrotekhnike pri Gosplane SSSR)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966,

TOPIC TAGS: flip flop circuit, computer component, arithmetic unit

ABSTRACT: This Author's Certificate introduces a device for division of two variables given in the form of increments. The unit contains two digital integrators and an adder. To simplify the circuit, make the process reversible and ensure high accuracy in the result, the installation contains single-register integrators for the quotient and divisor with corresponding code transmission circuits, a cumulative adder, flip-flop and four diodes. The outputs of the code transmission circuits for the quotient and divisor are connected to the code inputs of the adder which accumulates the difference between the dividend and the product of the quotient by the di-

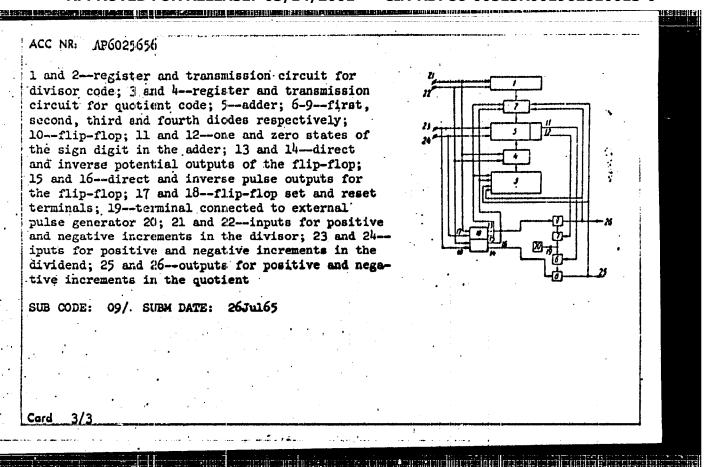
Card 1/3

UDC: 681.142.07

ACC NR: AP6025656

visor. The one and zero states of the sign digit in the adder are connected to the first inputs of the first and second diodes respectively, while the second inputs of these diodes are connected to an external pulse generator. The outputs of the first and second diodes are connected to the first inputs of the third and fourth diodes respectively, while the second inputs of these diodes are connected to the inverse and direct potential outputs of the flip-flop respectively. The direct and inverse pulse outputs of this flip-flop are connected to the inputs of the quotient register and divisor code transmission circuit. Also connected to these inputs are the outputs of the third and fourth diodes. The set terminal of the flip-flop is connected to the input for positive increments in the divisor and negative increments in the dividend. The reset terminal of the flip-flop is connected to these increments in the flip-flop is connected to the opposite inputs

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YERMILOV, Beris Pavlovich; ZAKATOV, Petr Sergeyevich; KUMUZOV, Mikhail

Mikiforovich; Muravin, Mark Mikhaylovich; SAYMIKO, Deltriy Vasil'yevich; TROITSKIY, Boris Vladisirovich; RUDSHTSY, M.L., redaktor;
POVALYAIEV, P.I., redaktor; KUZ'MIN, G.M., tekhnicheskiy redaktor

[Geodesy] Geodeziia. Pod obshchei red. P.S.Zakatova. Moskva, Izdvo geodezicheskol lit-ry. Pt. 1. 1954. 519 p. (MIRA 8:7)

(Geodesy)

YERMILOV, D. K.

USER/Medicine - Infectious Deseases (Veterimary)

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"Some Femorian on the STI Vaccine," P. D. Shat'ko, K. I. Plotnikov, K. P. Voroshilov, Voterinarians, D. K. Blailov, Homored Vet of the Republic

"Veterinariya" Vol EXVIII, No 5, pp 34, 35

Anti-enthrex veccine SFI was found to be reliable productic which confers immunity for 10-12 no. However, in 1950 forced vaccinations with STI were followed by infections with anthrex and death of some her se and cattle. Weather at these thing infections occurred was not and there was great number of horse files (which are assumed to remember anthrex). Microscopic exam of means from compact of chuld calculate disclosed transmit anthrex). Microscopic exam of means from compact of chuld calculate disclosed noncapsular anthrex bacilli in 17.6% of the cases, while such limitalli surrepresent only in 13% of the cases in corpses of court animals infected with initial materials.

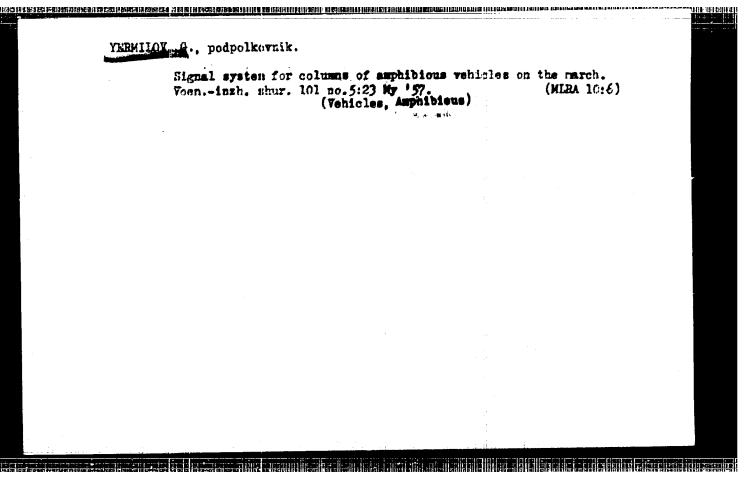
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SHAT'KO, P.D.; KORNILOVA, A.L.; YERMILOV, D.K. [deceased]

Natural foci of rables in Movosirbirsk Province. Zhur.
mikrobiol., epid. i immun. 40 no.6:33-38 Je '63.

(MIRA 17:6)

1. Iz Novosibirskoy obltastnoy veterinarnoy bekteriologicheskoy laboratorii.



	Maria December 11 de la Prese les Reces	(3511) M. BESTESSUM STEDSTÜMESTI. AFFECTERATIONE FFFI.	- Charles and the second secon	Ell die Hann
ropyti	arrov 17 a YRRMTI.	OV, G. (Simferopol*		
KANOII	Headquarters or	office? Grashd. av	7. 22 no.7:26-27 J1 165. (MIRA 18:7)	
•			nogo podrazdeleniya (for Krechetov).	
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YERMILOV, G. A. (ENGR)

Dissertation: "An Investigation of the Process of Hackling With a Small Combing Roller for the Purpose of Determining Its Basic Parameters for the High-Productive Hackle of a Noncarding Machine." Cand Tech Sci, Moscow Textile Inst, 30 Jun 54, Vechernyaya Moskva, Moscow. 22 Jun 54.

SO: Sum 318, 23 Dec. 1954

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810013-0"

ZOIOTAREV, Nikolay Il'ich; IEEMILOV, Grigoriy Andrayavich; ASTASHEV, A.G., retgengent; ECPRIRVICH, E.A., retgengent; ISLANKINA, T.F., red.; MEDVENEV, L.Ia., tekhn.red.

[Machinery for combing cotton] Chesal'nye mashiny dlia khlopka.
Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po legkol promyshl., 1959.

147 p. (Cotton machinery)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810013-0"

YERMILOVA. Gal.; KORNEY, A.Ye.; LEVIN, P.I.; LEBEDEVA, I.W.; GRINGERI,

A.Ke.; FRISHMAN, T.A.

Effectiveness of some stabilizers in the extrusion of polypropylene
films and their aging. Plast. massy no.5x46-49 165.

(HIRA 18:6)

Yermilov, G. B. - "On the interrelationships of plants within a species", (With editorial comment), Yestestvomaniye v shkole, 1949, No. 2, p. 7-17.

SO: U-hll, 17 July 53, (Letopis 'Zharnal 'myth Statey, No. 20, 1949).

1535-164-154 (1537 DESCRIPTION OF DE

YERMILOV, G. B.

Agriculture

Plant and light, Moskva, Gos. izd-vo sel'khoz. lit-ry, 1952.

Monthly List of Russian Accessions. Library of Congress October 1952 UNCLASSIFTED

DESCRIPENTAL DESCRIPTION OF THE PROPERTY OF TH

YERMILOV. G.B.

Seeds - Dissemination

Dissemination and concentration of seeds

Doll. AM SSSR 84,No. 3, 1952 red. 2 Dec. 1949

SO: Monthly List of Russian Accessions, Library of Congress, Sept. 1952 EDSE, Uncl.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810013-0"

ERMILOV, G. B.
USSR/Agriculture - Plant Physiology

Card : 1/1

Authors : Ermilov, G. B.

ritle : Effect of the short day on the growth and cold resistance of red clover

Periodical : Dokl. AN SSSR, 96, Ed. 5, 1061 - 1064, June 1954

Abstract: The experimental material shows that the growth of clower plants during a day time cycle of less than 12 hours leads to a decrease in clover

harvest in the following year. The growth of clover plants during short days results in reduction in the number of winter plants and reduces the possibility of the buds and stalks on the plant to grow again.

Seven references. Tables.

Institution : Acad. of Sc. USSR, Ural Branch, Biological Institute

Presented by : Academician, A. L. Kursanov, March 16, 1954

THEMILOY, G.B.; ZABLUDA, G.V., professor, otvetstvennyy redaktor

[Biological principles in sowing red clever] Biologicheskie osnovy posswa krasnogo klevera. Sverdlovsk, Akademija nauk SSER, Ural'skii filial, 1956. 72 p.

(Glover)

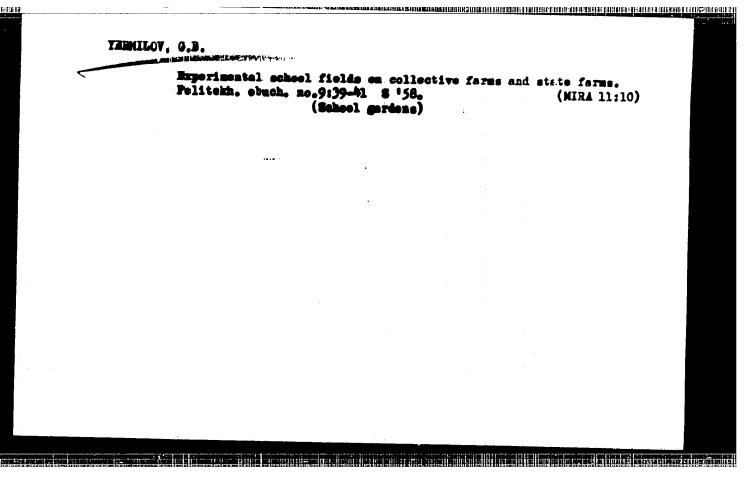
(Glover)

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) FUK KELEADE: UJ/17/2001 CAS III CAS III KERNINGAN MARKAN WEX HELDER TERMILOY, G.B. Productivity of corn leaves in the Mon-Chernozen sone [with summary in Inglish]. Elviol. rast. 4 no.6:542-547 H-B '57. 1. Institut biologii Ural'skege filiala AN SSER, Sverdlovsk.
(Corn (Maise)) (Leaves)

YERHILOV, G.Z. Water cycle of germinating red clover seeds [with summary in Raglish]. Fixiol. rast. 5 no.31245-252 My-Je '58. (MIRA 11:6) 1. Ural'skiy filial Akademii mank 282R, Sverdlovsk. (Glover) (Germination) (Soil moisture)



THRMILOY, G.B. Interrelationships of Trifolium sativum (Grome) plants during their first year of life. Bot.shur. 43 no.11:1633-1638 H 158. (MIRA 11:11) 1. Ural'skiy nauchno-issledovatel'skiy institut sel'skogo khosyaystva, Sverdlovek. (Glover) (Plants, Space arrangement of)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810013-0"

YERMILOVI G.B.

AUTHOR:

Yermilov, G. B.

20-3-52/59

TITLE:

On the Problem of the Physiology of Plant Flowering (K voprosu o fisiologii tsveteniya rasteniy).

PERIODICAL:

Doklady AN SSSR, Vol. 118, Nr 3, pp. 598-600 (USSR) 1958

ABSTRACT:

The transition of the plants from the vegetative stage to flowering and the conditions of this transition had since a long time attracted attention. However, the importance of the individual characteristic features of the plants itself has hitherto been taken into account only to a small extent especially the influence of these properties which depend on the seed quality has been researched little. The seeds, however, are never equal within the range of an ear or of a grain (references 1,2). The author observed the consequences of the characteristic features of the seeds on the details of flowering in seeds of various ripeness. 5 maise sorts were sowed and the seeds were gathered a) at the begin of , and b) during the stage of milk ripeness, and c) during the stage of growth ripeness. All these seeds had a much lower weight than normally matured seeds (table 1). The imperfect development of the seeds

Card 1/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810013-0"

On the Problem of the Physiology of Plant Flowering

20-3-52/59

prevented neither the good development of the prop nor the development of completely normal plants from them. The differences in germination amounted to 2 days at most. The equality of the plants before the harvest is shown in table 2, Since the summer of 1956 was cool the flowering of even the earliest sorts began only in the end of July. Table 3 shows that the time of flowering of male as well as of female inflorescences is to a great extent influenced by the maturity of the seeds. The flowering began 4-12 days somer in the case of plants from more mature seeds and took a more uniform course. The plants from less ripe plants were taller. This shows indirectly their slower generative development (table 2). The above mentioned results show that the degree of ripeness of the seed does not exercise any considerable influence on the growth of the vegetative parts of maise plants (references 4,5). The mentioned influence on the begin of flowering is only possible if plants from seeds of different degrees of ripeness react differently to one and the some environmental conditions, in other words, if their metabolism takes a somewhat different course. Furthermore it can be concluded from the results that the not simultaneous flowering which can always be observed

Card 2/4

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On the Problem of the Physiology of Plant Flowering

20-3-52/59

under field conditions can be explained not only by the differences of the microconditions of growth, but also by the individual characteristic features of the seeds from which the plants are grown, especially by the degree of ripeness of the first. This might be one of the reasons of the long known importance of using greater and equal seeds (reference 6) for sowing. Here not only the greater stock of substance, but also the evenness of the seeds with respect to the development of the embryo and to the overall maturity as well as with respect to the capability of a more uniform reaction to the environmental conditions can play a rôle, especially to the conditions which determine the development processes. The influence of the individual characteristic features of the seeds must be taken into account in physiological experiments concerning their flowering. Especially the influence of the state of the seeds (of their ripeness and chemical composition) must be taken into account in the study of the conditions which are important for the development of the plants.

Card 3/4

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On the Problem of the Physiology of Plant Flowering

20-3-52/59

There are 3 tables, and 6 references, all of which are

ASSOCIATION: Institute for Biology of the Ural Branch AN USSR

(Institut biologii Ural'akogo filiala Akademii nauk SSSR)

PRESENTED:

August 23, 1957, by A. L. Kursanov, Academician

SUBMITTED: August 20, 1957

AVAILABLE:

Library of Congress

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TERMILOV G B, kand.biolog.neuk, stershiy nauchnyy sutrudnik; GRRBNEV, B., red.; PAL'MIMA, N., tekhn.red.

[Red clover] Krasnyi klever. Sverdlovsk, Sverdlovskos knishnoe isd-vo, 1959. 120 p.

[NIRA 14:3) /

1. Urel'skoye otdeleniye Msuchno-issledovatel'skogo institute sel'skogo khoxyaystva (for Termilov).

(Glover)

YERNIOY, G.B.						
	Biological differences in corn varieties. Fixibl. rast. 6 no.3: 361-362 Wy-Je 59. (MIRA 12:8)					
	1. Ural Scientific B (Corn (Maiss	lesearch Agricultural In	nstitute, SwerdlovskTranspiration)			
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17(4),30(1)

AUTHOR:

Yermilov, G. B.

BOY/20-125-2-52/64

TITLE:

On the Water Balance of Germs During the First Days of Their Life (O vodnom rezhime prorostkov v pervyye dni ikh zhizni)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 2, pp 420-423

(USSR)

ABSTRACT:

The period from seed germination to the appearance of the germ on the surface belongs to the most critical periods in the life of plants (Ref 1). The physiology of germination and the environmental influence on this stage, however, belong to the most unsatisfactorily investigated problems (Refs 2,7). In order to study the aforesaid problem, the author applied Fil'ter's principle (according to reference 2). The seed swelling ceased in a certain stage which corresponded to the water amount assimilated by the seed or consumed by the germ. Seeds of summer wheat "Moskovka", local summer vetch, peas "Kapital" and Indian corn VIR-42 were sown in glasses with sand in a depth of 5 cm. Tap water in quantities of 5, 7, 9, and 11 % of the total capacity of humidity was filled in and

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no water was added afterwards. As soon as equilibrium between the water in the sand and in the seed or germ had

On the Water Balance of Germs During the First Days SOV/20-125-2-52/64 of Their Life

been established after 8-10 days, the germs were taken out, sorted and divided into three parts: cotyledons (endosperm), germ (coleoptiles), and root. The seed (appearance of the root) begins to germinate as soon as the seed has attained a certain degree of saturation with water (Table 1). It is not the absolute assimilated quantity of water which is determining in this respect, but the degree of saturation. It may be expressed by the water content in % of the absolute dry weight of the seed. In the case of the vetch it amounts to ~110 %, with peas it is 85 %, with Indian corn it is 38 %, with wheat it is 57 %. In the case of water lack the small seeds will germinate first since they will have attained the necessary degree of saturation more rapidly with the same assimilated quantity of water. The cotyledons and the endosperm are important to the water supply of the root and germ during the first days of life. The quantity of water assimilated until the moment when the germ appears is insufficient for the growth of the latter (Table 2). The newly assimilated water is conveyed primarily into the germ (coleoptiles) and is concentrated there (Table 3). Figures 1, 2, and 3 show

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On the Water Balance of Germs During the First Days SOV/20-125-2-52/64 of Their Life

the dependence of the growth of roots and germs on the quantity and content of water contained in them. With the growth of coleoptiles the ratio of growing and mature parts varies (Table 4). Table 5 shows the dependence between the water balance of coleoptiles and the particularities of growth of their individual parts. The length is closely connected with the water balance. The length depends less on the saturation of the germs. In the case of vetches and peas the length of germs depends to a certain extent on the saturation of cotyledons, which does not hold for Indian corn. The length of the root depends less on the quantity of water and does not depend on the saturation. There is no connection between the saturation of the roots and germs on the one hand and their dry weight on the other (pea, vetch), or there is only a small one (Indian corn). There are 3 figures, 5 tables, and 7 Soviet references.

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On the Water Balance of Germs During the First Days SOV/20-125-2-52/64 of Their Life

ASSOCIATION: Ural'skiy nauchno-issledovatel'skiy institut sel'skogo khozya-

ystva (Ural Scientific Research Institute of Agriculture)

PRESENTED: December 9, 1958, by A. L. Kursanov, Academician

SUBMITTED: December 8, 1958

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YERMILOV, G.B. Some characteristics of the absorption of water by seed corn. Fisiol.rast. 7 no.1:49-56 '60. (MRA 13:5) 1. Plant Physiology Laboratory of Ural Scientific Research Agricultural Institute, Swerdlowk. (Corn(Maise))

TERMILOV, G.B.

Effect of gibberellic acid on seed germination and seedling resistance in corn. Isv. AN SSSR. Ser. biol. 26 no.1:33-39 Ja-F '61.

(MIRA 14:3)

1. The Ural Branch of Abademy of Sciences of the U.S.B.R., Sverdlovsk.

(GIBBERELLIC ACID) (CORN (MAIZE))

(GERMINATION)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810013-0"

YERMILOV, G.B. Effect of the Internal processes in plants on the productivity of corn leaves. Fiziol.rast. 9 mo.4:393-397 '62. (MIRA 15:9)

1. Ural'skiy filial Akademii nauk SSSR, Sverdlovsk. (CORN (MAIZE)) (PHOTOSYNTHESIS)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810013-0"

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BAI YUZEK, F.V.; BURMISTROV, M.I.; DZUTSOV, N.K.; YERMILOV, W.I.; KARIMOVA, T.V.; SKORIK, V.I.; UVAROV, B.S.; SHANIH, Yn. M.; SHAMIRINA, T.M.

Artificial circulation in surgery of the heart and large vessels.

Grud.khir. no.4:33-39 Jl-Ag '62. (MIRA 15:10)

J. Iz kliniki khirugii usovershenstvovaniya vrachey No. 1 (nach. - deystvitel'nyy chlen AMY SSSR prof. N.A. Kupriyanov) V. yennomeditsinskoy akademii imeni S.M. Kirova. Adres avtorov V. yennomeditsinskoy akademii imeni S.M. Kirova. Adres avtorov V. Lennigrad, K.-9, pr. K. Marksa, d. 5/20 Khirurgicheskaya klinika diya usovershenstvovaniya vrachey No. 1.

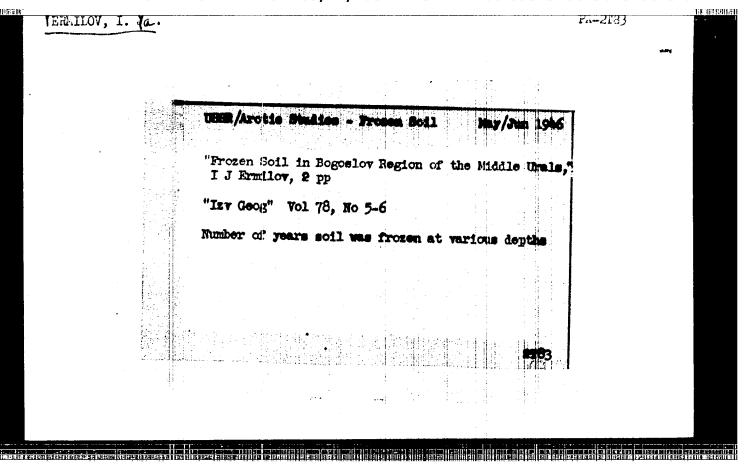
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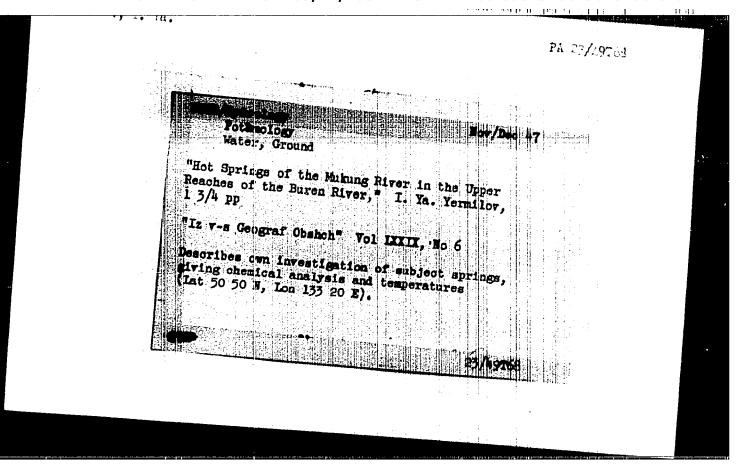
SKLYAROV, Yu.A.; POLYAKOV, V.M.; YERMILOV, G.P.

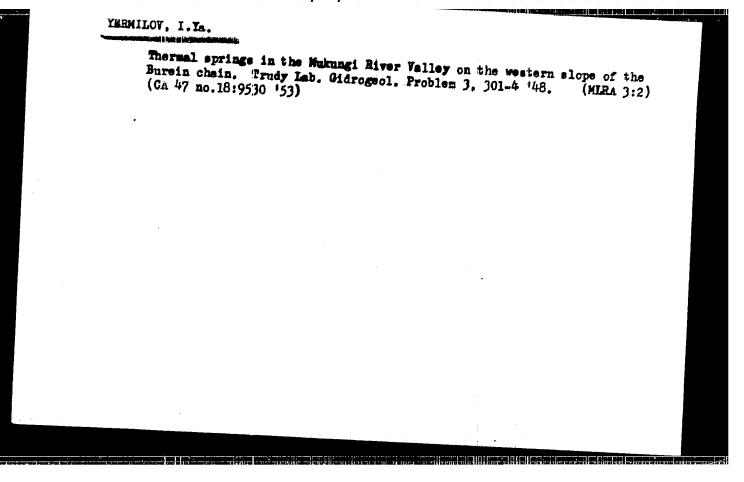
Photographic observations of minor planets and cf Seki-Lines comet in Saratov. Biul. Inst. teor. astron. 9 no.8:576 164.

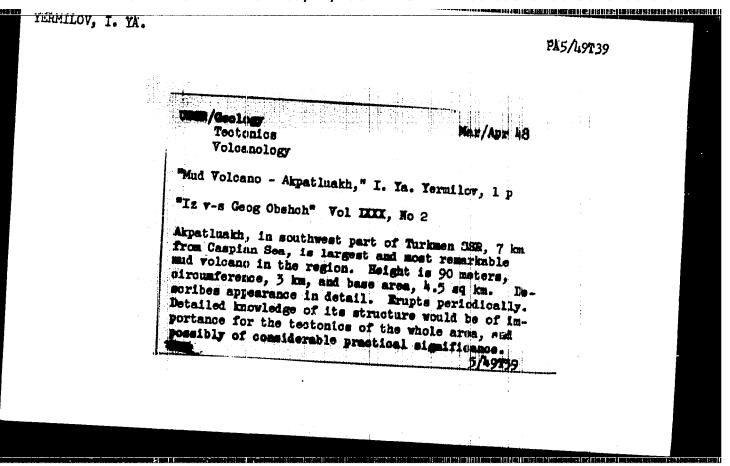
(MIRA 17:12)

1. Saratovskiy pedagogicheskiy institut i Saratovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva.





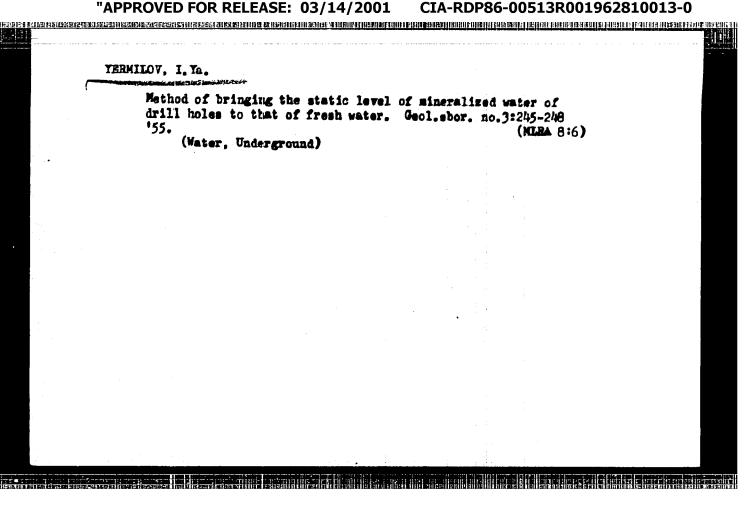




YERMILOV, I. YA.

20569 YERMILOV, I. YA. Formy eclovoy akkumulyatsii v solonchakovykh pustynyakh zapadnoy turkmenii. Izvestiya vsesoyuz. geolr. o-va, 1949, vyp. 3, s. 327-33.

SO: LETOFIS ZHURNAL STATEY - Vol. 28, Moskva - 1949



TERMILOY, I. Ya.

的建排毛罐

Original forms of sculptural microrelief on the Mangrehlak Peninsula. Geog.sbor. no.10:172-174 58. (M.IRA 12:1) (Mangrehlak Peninsula-Geology, Stratigraphic)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810013-0"

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YERMILOV, L.P.

持续操码

Some changes in the blood coagulation system in arteriosclerosis of the coronary arteries of the heart. Kardiologiia 2 no.1:37-43 Ja-F 162.

1. Iz kafedry fakulitetskoy terapii (zav. - prof. T.S. Istamanova)
I Leningradskogo meditsinskogo instituta imeni akademika Pavlova.
(BLOOD--COAGULATION) (ARTERIOSCLEROSIS)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810013-0"

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YERMILOV, L.P.

Correlation of the level of prothrombin and fibringsm in the blood plasma in stenocardia and myocardial infarct. Sowwed. 26 no.10:14-17 0 '62. (MIRA 15:12)

1. Iz kafedry fakul tetskoy terapii (zav. - prof. T.S.Istamanova) I Leningradskogo meditsinskogo instituta imeni I.P.Pavlova. (PROTHROMBIN) (FIBRINOGEN) (ANGINA PECTORIS) (HEART-INFARCTION)

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SOV/169-59-7-7197

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 7, p 109 (USSR)

AUTHOR:

Hailus R

Yermilov, S.N.

TITLE:

On the Problem of the Influence of Advection on the Temperature Distribution Near a Base Surface

PERIODICAL:

Tr. Leningr. gidrometeorol. in-ta, 1958, Nr 8, pp 169 - 180

ABSTRACT:

The non-stationary problem of air-mass modification under the effect of turbulent mixing along the vertical and temperature transfer along the horizontal by an orderly velocity of wind wind (advection) is discussed. According to this, the equation of the problem has the form:

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 $= \frac{\partial}{\partial z} \quad k \quad (z) \quad \frac{\partial \gamma}{\partial z} ,$

where: T is the temperature, t is the time, u is the velocity of wind, directed along the horizontal coordinate axis x, k(z) is the turbulence ratio of thermal diffusivity, which is assumed to be a power function of the altitude z. The velocity of wind u is assumed to be constant. The following data are considered to be

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On the Problem of the Influence of Advection on the Temperature Distribution

given as boundary conditions: the temperature at the base surface z=0, the distribution of temperature within the quadrant x > 0, z > 0 at the initial instant t = 0, and the distribution of temperature along the "initial half-ray" x = 0. The solution is sought, which is limited for $z=\infty$. The problem in such a formulation was solved earlier by M.Ye. Berlyand (Prediction and control of the thermal regime of the atmosphere layer near the earth surface. Gidrometeoizdat, 1956); who applied the twofold operational transformation with respect to variables t and κ . The same solution is obtained in the present reviewed work, but by an other method and accordingly in an other form. Namely, the author following the idea and guidance of D.L. Laykhtman after having used the operational transformation with respect to variable t, employed the integral Gruenberg transformation with respect to variable z. In consequence, the author obtains the solution composed by simple and double integrals, and some of the quadratures must be carried out in the complex range according to the Riemann-Mellin-formula. The interpretation of a series of interesting special cases is original in the work. In section A the author discusses the event when the temperature of

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On the Problem of the Influence of Advection on the Temperature Distributed Near a Base Surface

the base surface does not vary in time. In this case the solution is represented by a degenerated hypergeometric function. The computations are performed for three particular subcases:

If
$$k_0 = 0.2 \text{ m}^2/\text{sec}$$
, $u = 2 \text{ m/sec}$
III $k_0 = 0.3 \text{ m}^2/\text{sec}$, $u = 2 \text{ m/sec}$
IIII $k_0 = 0.3 \text{ m}^2/\text{sec}$, $u = 5 \text{ m/sec}$

(k_0 is the value of the ratio of the turbulent thermal diffusivity at an altitude of 1 m). It is shown that the thickness of the boundary layer is greater for higher values of the turbulence ratio (case II relatively to I) and for lesser velocities of wind (case II relatively to III). For the subcase I the variation of the turbulent heat current along the horizontal is plotted; this current decreases with an increase in the distance from the initial line x=0, and the decrement rate diminishes with an increase of x. In section B the event is investigated when the temperature of the base surface is not depending on x and varies discretely in time.

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On the Problem of the Influence of Advection on the Temperature Distribution Near a Base Surface

The author assumes that the temperature on the surface z=0 is equal to some constant value different from the initial value during a certain interval of time $t_1 \le t \le t_1 + \Delta$, but during the rest of the time it is equal to the initial value. In this case the solution is expressed by a degenerated hypergeometric and incomplete function. For this case, the detailed computation of one example is performed, which makes it possible to trace how the temperature at the various altitudes and various distances follows the temperature variation in the base surface. Particularly, it is ascertained that the influence of the variations of the temperature in the base surface extends practically to small altitudes: Already at the 200 m level, this influence is hardly noticeable. In so far as the real variation of the temperature in the surface z=0 can be approximated by a multitude of discrete variations, so the given example has also methodical significance.

L.S. Gandin

Card 4/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810013-0"

sov/169-59-6-6016

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 6, p 88 (USSR)

AUTHOR:

Yermilov, S.N.

TITLE:

On the Interconnected Transformation of Temperature and Humidity

Fields in the Layer of Atmosphere Near the Bround

PERIODICAL:

Uch. zap. Ivanovsk. gos. ped. in-t, 1958, Vol 18, pp 231 - 244

ABSTRACT:

The temperature and humidity variation in a moving air mass is described by a known system of differential equations and the formal solution of this system is performed. The author proposes some simplification of the obtained formulae for a special case of the problem in question, assuming the variations of temperature and humidity to proceed in jumps. The calculation

results of one example are cited.

M.Ye. Berlyand

Card 1/1

YERMILOV, S.N., Cand Phys-Math Sci (disa) Certain quantions of the theory of the transformation of Air masses in the near ground layer of the atmosphere. Leningrad, 1960, 12 pp (Main Geophysical Observatory im A. I. Voyeykov) (KL, 34-60, 119)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810013-0"

YEFMILOV, S.N.

Temperature-field transformation above an inhomogenous underlying surface. Trudy Len.gidromet.inst. no.18:184-190 63.

(MIRA 18:1)

Temperature-field transformation and moisture above an inhorogenous underlying surface. Ibid.:191-201

DUNIN-BARKOYSKIY, Lev Valerienovich; GELLER, S.Yu., doktor geograf.
nauk, red.; YEBHLOW, L.Z., red.; PROGREKIM, L.V., tekhn.red.

[Physicogeographical principles of planning irrigation systems; soning and water balance of the irrigated territory] Fisikogeograficheskie canony proektirovania crositel nykh sistem; raiomirovania i vodnyi balans oroshaemoi territorii. Pod red.
S.IU.Gellera. Moskva. Izd-vo M-va sal'skogo khoz.SSSR, 1960.

166 p. (Irrigation)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810013-0"

MERENOV, Igor' Vladimirovich; SHMUKER, Anatoliy Lasarevich;
IKRMILOV, L.T., hapitan 2 ranga, red.; KALACHEV, S.G.,
tekhn. red.

[Inflatable lifesaving apparatus for use at sea] Naduvnye
spasatel'nye sredstva na more. Moskva, Voentzdat, 1963. 101 p.

(MIRA 16:7)

(Lifesaving apparatus)

BOGDANOV, Arkadiy Mikhaylovich; YERMILOV, L.T., red.

[Cargo transshipment to ships at sea] Peredacha gruzov korabliam na khodu. Moskva, Voenizdat, 1964. 92 p.

(MIRA 18:1)

GORDEYEV, Leonid Ivanovich; ZAKOLODYAZHNYY, Vitaliy Invliction; SUVOPOV. Yevgeniy Fedorovic; FUFAYEV, Vedin dlekseyevich; CHUROV, Yevgeniy Fetrovich; YERMILOV, L.T., red.

[Space beacons in navigation] Kosmicheskie maiakl v navigatsii. Moskva, Voenizdat, 1964. 201 p. (MIRA 17:9)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810013-0"

KABOZOV, S., kand.sel'skokhos.nauk; TARASINSKIY, G.; YERMILOV, N.

Uning synthetic urea and manganese in mixed feeds. Muk.-elev.
prom. 25 no.7:21-22 Jl '59. (MIRA 12:11)

1. Glavnyy inshener Orenburgskogo kombikormovogo savoda (for Turasinskiy). 2. Machal'nik otdela tekhno-khimicheskogo kontrolya (for Termilov).

(for Termilov).

(Feeds) (Urea) (Manganese)

APPROVENCY CONTROL OF MALE AND APPROVENCY AS A COMPONENT OF MALE AND APPROVENCY AND APPROVENCY AS A COMPONENT OF MALE AND APPROVED APPROVED AND APPROVED AS A COMPONENT OF APPROVENCY AS A COMPONENT OF APPROVEN

Improve planning of shep work. Shel.der.transp.36 ne.12:69-71 D '56.
(MIMA 10:2)

1. Sekretar' partiyange kemiteta parovennego depo Ulan-Udakoy Vetetchio-Sibirakoy deregi (for Termiley). 2. Glavnyy bukhgalter depo Ulan-Udakoy Vestechio-Sibirakoy deregi (for Semenov).

(Locenetives-Repaire)

SOV/124-57-4-4454

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 84 (USSR)

AUTHORS:

/ B Milin, # Yermilov, N. D.

TITLE:

The Effect of Turbulence on the Conductivity of Air Under the Action

of Electric Fields (Vliyaniye turbulentnosti na provodimost'

vozdukha pod vozdeystviyem elektricheskikh poley)

PERIODICAL: Uch. zap. Kirovskiy ped. in-t, 1954, Vol 1, Nr 8, pp 21-28

ABSTRACT: A presentation and analysis of the results of special experiments on the artificial ionization of atmosphere performed primarily in order to study the effects of turbulent mixing on the electrical conductivity of the atmospheric surface layer. The method of artificial ion dissemination is suitable for the evaluation of the turbulent exchange coefficient in the surface layer of the atmosphere: A definite relationship exists between the turbulent exchange coefficient (with a given stratification of the ground layer) and the ratio between the conductivity values of two levels situated at an equal distance from a linear ion source. Similar experiments carried out in 1954 demonstrated that the turbulent exchange coefficients determined on the basis of ion-disseminator data and gradient observations have fairly close values and

Card 1/2

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SOV/124-57-4-4454

The Effect of Turbulence on the Conductivity of Air Under the Action (cont.)

exhibit a consistent behavior in the course of different experiments. Apparatus employed for the artificial ion dissemination and the measurement of conductivity is described. Experiments were also conducted with a plane (vertically arranged) source of ions.

L.S. Gandin

Card 2/2

YERMILOV, ND.

USSE/Physics of the Atmosphere - Atmospheric Electricity, M-

Abst Journal: Referat Zhur - Fizika, He 12, 1956, 36201

Author: Yermilov, N. D., Krasnev, B. I.

Institution: Mone

Title: Certain Refigements to the Theory of the Vertical Distribution of the Intensity of the Atmospheric Electric Field in Hermal Days

Original

Periodical: Uch. zap. Kirovskovo ges. ped. in-ta, 1955, No 9, 171-182

Abstract: An analysis is made of the variation of the intensity of the electric field with altitude in days characterized by weak winds and insignificant cloudiness in the absence of precipitation. This M. 1. The entire problem is solved under the following atmosphere is arbitrarily divided into a surface layer and the fired atmosphere. 2. In the surface layer the electric conductivity in constant, and in the free atmosphere it varies exponentially $\lambda_z = \exp[\alpha(z-H)]$, where λ_z is the electric conductivity at alti-

Thide z, α a constant characterising the variation of λ with altitude,

Card 1/2

USSE/Physics of the Atmosphere - Atmospheric Electricity, M-

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36201

Abstract: and H is the height of the surface layer. 3. The coefficient of turbulent mixing k(z) varies linearly with altitude in the surface layer $k(z) = k_1 z$, and remains constant outside the surface layer $k(z) = k_1 H$. 4. Under nermal conditions the one-dimensional Poisson equation $d^2v/dz^2 = 4\pi\rho$ holds at any altitude (v is the potentialof the electric field and p is the charge density). 5. At the boundary between the surface layer and the free atmosphere, the distribution of the space charge has no extremum, i.e., $d\rho/dz \neq 0$. Under these conditions, the following equations are determined for the variation of the field intensity with altitude:

 $y(z) = \frac{1}{26H} (\sqrt{8} + 1)D(zk_1(D(z) - (\sqrt{8} - 1)H^{-2D}D(zk_1(D(z)))...$

 $-\exp\left(\overline{z}\left(H-z\right)\right)\left(\frac{u}{u}\right)\exp\left(\overline{z}\left(H-z\right)\right)$

are the field intensities at altitude z and at the earth's surface; K_1 and I_1 are the McDonald and Bessel functions; $D = 4 \sqrt{n\lambda/k_1}$; $\Delta = 28 \, \mathrm{H}^{-D} + \sqrt{8} + 1$, and $\delta = 4 \sqrt{\lambda/k_1} \mathrm{H}^2$. These relationships can be used to determine the coefficient of turbulence.

Card 2/2

AUTHORS:

Yermilov, N. G., Technician

SOV/91-59-2-22/33

TITLE:

A Device for the Impregnation of Wood under Local Conditions

(Ustanovka dlya propitki drevesiny v mestnykh usloviyakh)

PERIODICAL:

Energetik, 1959, Nr 2, pp 29 - 31 (USSR)

ABSTRACT:

The author describes a diffusion impregnation process of wood with creosole oil by a locally constructed (at a cost of 2,500 rubles) impregnating device. Impregnation of one wood item took 60 - 70 min. The depth of penetration of the antiseptic reached 25 - 35 mm. Two workers operating the device impregnated 2m3 of wood per workday. There are two photos

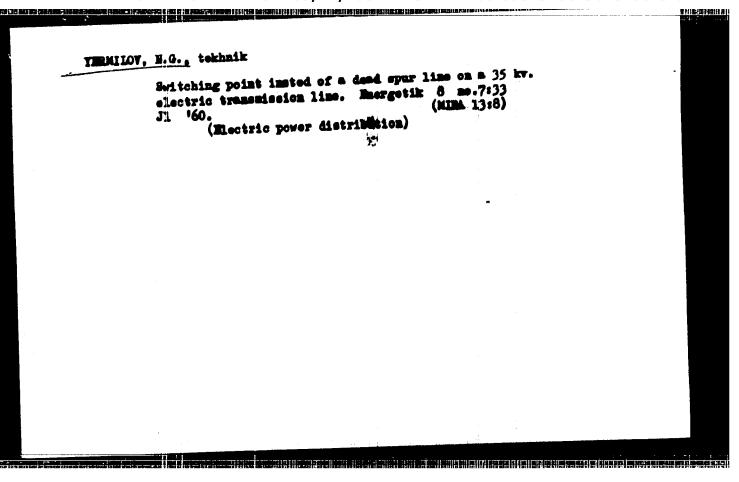
and 1 diagram.

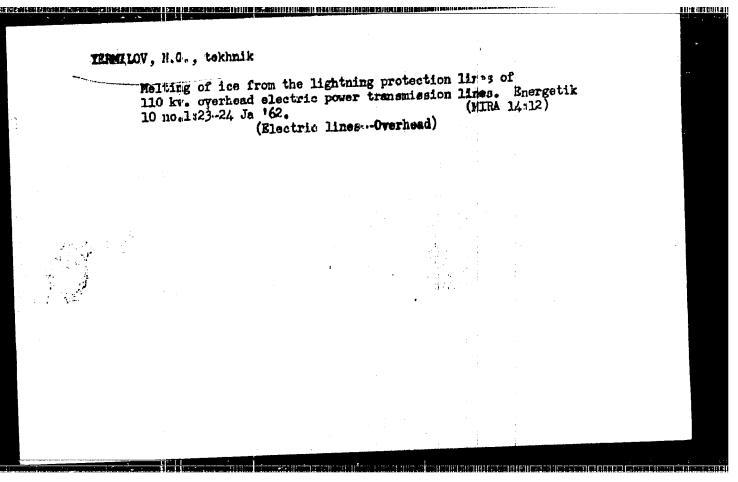
Card 1/1

ENVILLY, Aleksey Petrovich; KUMMEROV, P.V., red.; THEMILOY, F.G., spetsred.; PORGAREYA, A.A., tekhn.red.

[Precast construction and its economic effectiveness] Shornoe stroitel stvo i ego ekonomicheskaia effektivnost'. Moskva, Oosplenisdat, 1960. 157 p. (MIRA 13:7)

(Precast concrete construction)





ANICHKOV, M.N. (Lemingrad, Mokhovaya ul., d.28,kv.26); BALYUZEK, F.V.;
BURNISTROV, M.I.; PISAREY, Yu.F.; YERMILOV, N.I.

Resention and trunsplantation of a segment of the arch of the arch of the with its branches (the carotid and subclavian arteries). Grud.

(MIRA 16:5)

khir. 3 no.1:9-13 Ja-F '61.

1. Is khirurgicheskoy klimiki dlya usovershenstvovaniya vrachey
No.1 (machal'mik - deystvitel'my chlem ANN SSSR prof.
P.A.Kuprigamov) Voyenno-meditsinskoy ordena Lemina akademii
immii S.M.Kirova.

(CAROTID ARTERY—SURGERY)

(AORTM—SURGERY)

BALYUZEK, P.V., kand.med.nauk; SHANIN, Ku.W., kand.med.nauk; BURMISTROV, M.I.; YERMILOV, N.I.; KARIMOVA, T.V.

Use of extracorporeal circulation in experimental open heart surgery. Vest.khir. 87 no.11:24-30 N '61. (MIRA 15:11)

1. Iz 1-y khirurgicheskoy kliniki usovershenstvovaniya vrachey i kafedry anesteziologii (nach. - prof. P.A. Kupriyanov) Voyenno-meditsinskoy ordena Lenina akademii im. S.M. Kirova.

(PERFUSION FUND (HEART))

OTCHENASHENKO, I.M.; NEYMARK, V.M.; YERMILOV, N.K.; YECOROV, B.N.

Volume microdilatometer for investigating phase transitions.
Zav. lab. 29 no.10:1260-1261 *63. (MIRA 16:12)

1. AN SSSR i Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova.

8/076/62/036/001/011/017 B124/B110

Yegorov, E. N., Yermilov, N. K., and Otchenashenko, I. M. AUTHORS:

New thermal setup for phase analysis of small specimens TITLE:

Zhurnal fizicheskoy khimii, v. 36, no. 1, 1962, 170-175 PERIODICAL:

TEXT: A new setup securing uniform heating and cooling over a wide temperature range at an adjustable rate is described. The setup, designed for use in thermal analysis, was developed at the Design Office mentioned under Association. A block diagram, including a thermal block (Fig. 2), temperature control equipment, an 3P-C-K (ER-S-K) electronic controller furnished by the factory "Komega", and an CM-120 (SN-120) voltage regulator, is shown in Fig. 1. Uniform temperature changes over the range from -150 to 350°C at rates between 0.1 and 6.4°/min can be obtained The thermal block is an enclosed all-metal stainless steel chamber with its upper flamme 4 fastened to bearing disk 3. A platinum thermocouple 13 is provided at the bottom to control the temperature within the block. Further components of the thermal block are: electrical heater 15, metallic holder 2, heat reflectors 5, and measuring rod 9. All thermal

Card 1/85.

LEVCHENKO, D.N.; YERMILOV, A.S.; TEPLYKH, G.A.; VOLOEUYEV, N.K.

Use of ultrasound for deemulsifying stable petroleum emulsions.

Prim. ul'traskust. k issl. veshch. no.14:337-343 *61. (MIRA 14:12)

(Ultrasonic waves--Industrial applications) (Emulsions)

L 42209-66 E/II(m)/T ACC NR. AT6013184 SOURCE CODE: UR/0000/61/000/000/0337/0343 AUTHORS: Levchenko, D. N.; Yermilov, A. S.; Teplykh, G. A.; Volobuyev, N. K. ORG: none TITLE: Application of ultrasound in de-emulsification of stable oil emulsions SOURCE: Moscow. Oblastnoy pedagogicheskiy institut., Primeneniye ul'traakustiki k issledovaniyu veshchestva, no. 14, 1961, 337-343 TOPIC TAGS: ultrasound, emulsion, ultrasonic equipment, ultrasonic petroleum purification, ultrasonic vibration emitter, barium titanate / OP-10 de-emulsifier, VNII NP-58 de-emulsifier, KS-59 de-emulsifier ABSTRACT: De-emulsification by means of ultrasound was studied on stable, aged, oil-water emulsions from traps and storehouses of the Moscow refineries. Three ultrasound generators (3.2 and 0.6 kilowatt capacities) and vibrators (magnetostrictive, barium tiltanate, flat, and focusing) were employed in the study. The degree of de-emulsification was determined as a function of the height of the sonicated emulsion layer, sonication time, and ultrasound field intensity. It was established that the investigated emulsions can be destroyed when treated with ultrasound with a frequency of 20-750 kHz. The de-emulsification degree increases with increased ultrasound field intensity and time of treatment, and decreases with increased emulsion layer. The sound frequency is inversely proportional to the optimal thickness Card 1/2

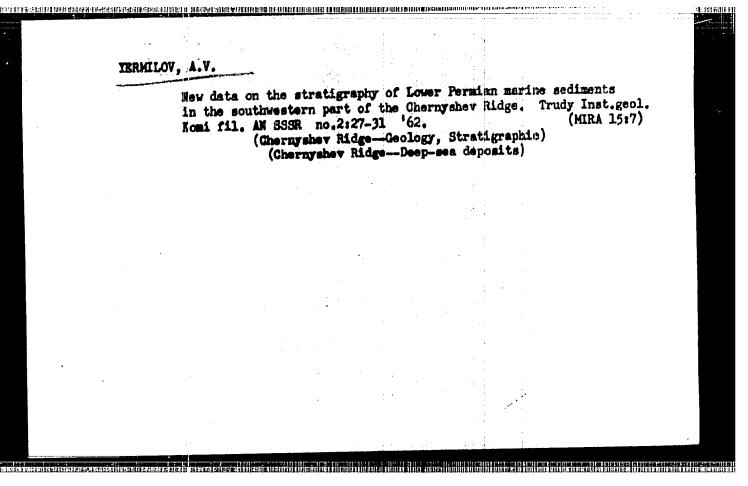
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and nydrod	ynamic vibrat	ors used in	st promising vi conjunction wi les and 8 figur	ibrators are bari th de-emulsifier	um titanate s OP-10, VNI	pipes I NP-58,
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YERMILOW, A.V., gornyy insh.; ZAGORUYKO, G.K., gornyy insh.

Magaitude of sdvance in stripping operations at the Ufaley open-pit mines. Gor. shur. no. 12:19-22 D '65. (MURA 18:12)

1. Ufaleyskiy nikelevyy kombinat.

1, Ufaleyskiy nikelevyy javed. (Chernoye Lake region Mine drainage)	 Draimage of the lake Chernoye deposit with water level reduction wells. Gor. shur. no.7:23-24 Jl '61. (NIRA 15:2)									
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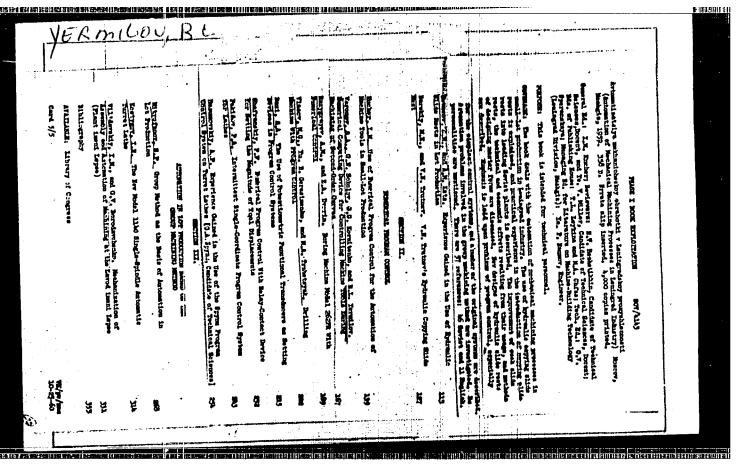
KIM, M.V.; BITADZE, M.A.; YERMILOV, B.F.; ZYDEL', A.I.; KUSHREV,
A.P.; LAZAREV, N.N.; MILAV'YEV, D.M.; BONDAREV, P.D., kand.
teldhn. nauk, nauchnyy red.; OSENKO, L.M., red. 1ad-vn; RODIOHOVA, V.H.,
telchn.red.

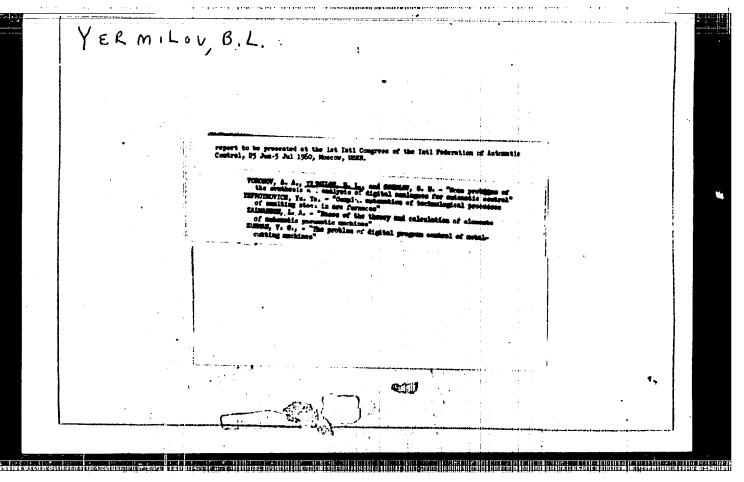
[Erection of foundations under permafrost conditions; from
practice used in the Norilak region]Vozvedenie fundamentov v
usloviiakh vechnomerzlykh gruntov; iz opyta Noril'skogo raiona.
Moskva, Gosstroiizdat, 1962. 53 p. (MIRA 15:9)

1. Russia (1917- R.S.F.S.R.) Krasneyarskiy ekonomicheskiy administrativnyy rayon. Sovet narodnogo khozyaystva.

(Foundations) (Horil'sk-Frozen ground)

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YERMILOV, BL.

PHASE I BOOK EXPLOITATION 80V/5094

Voronov, Avenir Arkad'yevich, A. R. Garbusov, B. L. Yermilov, M. B. Ignat'yew, G. G. Kornitenko, G. H. Sokolov and Yang Hel-Theng

Tsifrovyye smalogi dlya sistem avtomaticheskogo upravleniya; tsifrovyye rasnostnyye analizatory (Digital Analogs for Automatic Control Systems; Digital Differential Analyzers). Moscow, Isd-vo AN SSER, 1960. 195 p. Errata slip inserted. 7,000 copies printed.

Sponsoring Agency: Akademiya nauk SESR. Institut elektronekhaniki.

Ed.: A. A. Voronov, Doctor of Technical Sciences; Ed. of Publishing House: I. V. Barkovskiy; Tech. Ed.: V. T. Bochever.

PUNCON: This book is intended to acquaint scientific and technical personnel with the latest developments in the field of computers.

I NST: I related Continued AN SSSR (for all skind the development in the field of computers and are not yet well elaborated theoretically. Some of the newest developments in combining universal digital machines

Card 1/8

Digital Analogs for Automatic (Cont.)

BOV/5094

with nonlinear interpolators, such as the Ferranti interpolator, are as yet unknown to Soviet readers. While the Soviet literature contains several works describing the principles of construction and operation of differential analyzers intended for operation as computers, the main emphasis in this book is on general methods of synthesizing those machines which are intended to work as systems of automatic control, and also on problems of accuracy in operation. At present digital analogs are used mostly for programmed control of metalworking machines, where several operations, such as preparing data for control, feeding them into the computer, the computing process, and the process of control, are involved. The book investigates only the computing units of the control system. The authors state that the error of integration can be reduced by increasing the number of columns of multidigit numbers in the addend registers or by transition to more accurate, though more complicated, algorithms of approximate integration. However, they find that this complicates the system, and suggest a method which permits simplifying the system while maintaining its accuracy; that is, proceeding from difference, instead of differential, equations. A digital analog based on such principles should be called a digital "difference" analyzer instead of "differential" analyzer. The book discusses problems

Card 2/8

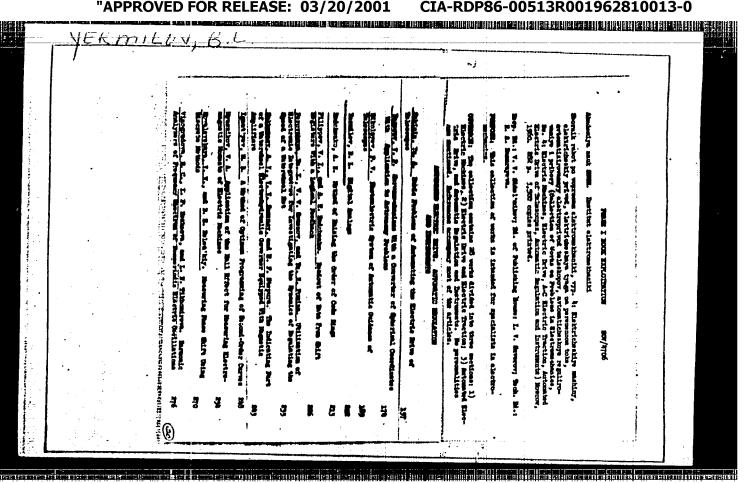
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Digital Analogs for Automatic (Cont.)

of synthesis and analysis of both difference and differential equations. Mays to reduce errors and simplify the arrangement of such computers are indicated. The book attempts to present certain theoretical developments in this field and as a first attempt does not claim to give a full solution of the problem. It also includes some general information on systems of computation and on their basic units and presents examples of difference analyzers developed at the institute of Electromechanics, AS USER. The introduction, pars. 1-6 and 8 of Ch. III, Ch. IV, pars. 1 and 4 of Ch. V, and pars. 3 and 4 of Ch. VIII were written by A. A. Voronov; pars. 1 and 2 of Ch. VIII by A. R. Garbusov; Ch. I by B. L. Yermilov; par. 7 of Ch. III and Appendix I by M. B. Ignat'yev; Ch. II by G. G. Kornitenko; and Ch. VI by G. N. Sokolov, all coworkers of the Institute of Electromechanics, AN USER. Pars. 2 and 3 of Ch. V were written by Yang Hei-Teeng, coworker of the Academy of Sciences, Chinese Reople's Republic, and Chapter VII was written jointly by A. A. Voronov and B. L. Yermilov. No personalities are mentioned. There are 76 references: 39 Soviet (including 1 in French and 1 translation) and 37

Cart 3/8



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8/123/61/000/009/016/027 A004/A104

AUTHOR:

9,7000

Yermilov, B. L.

TITLE:

Digital analogs

PERIODICAL:

Referativnyy zhurmal, Mashinostroyeniye, no. 9, 1961, 19, abstract 9D135 ("Sb. rapot po vopr. elektromekhan. In-t elektromekhn.

AN SSSR*, 1960, no. 4, 202-213)

TEXT: It is pointed out that digital analogs combine the high precision of digital computors with the rapid action of mathematical models and are, above all, employed in carrying out individual mathematical operations. They are digital analogs of computers of continuous action. They are characterized by the fact that the preparation for the solution of the problem is carried out by methods used in continuous-action computers instead of digital coding methods. The rating of errors is effected by digital methods. The author analyzes the execution of an operation of raising to a square a variable magnitude with numerical pulse representation and monotonic character of its variations, and also the extraction of square and cubic roots. For the nonmonotonic variation of variable magnitudes reversible counters are used which register the increment

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Digital analogs

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signs, the absolute magnitude of which is transmitted over several channels or on one channel but in different ways. The author enumerates the fields of application of digital analogs.

G. Flidlider

[Abstractor's note: Complete translation]

Card 2/2

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1.7000 also 1013, 1031

27978 \$/194/61/000/004/010/052 D249/D302

AUTHOR:

Yermilov, B.L.

TITLE:

Some types of functional digitizers

PERIODICAL:

Referativnyy zhurnal. Avtomatika i radioelektronika, no. 4, 1961, 21, abstract 4 Bl59 (V sb. Teoriya i primeneniye diskretn. avtomat. sistem, M., AN SSSR, 1960, 339-351)

TEXT: Program control of milling machines is considered. The control device consists of the pulse generator, adder and variable division-ratio pulse count divider. A description is given of the squaring and square root-extraction devices, the latter consisting of a pulse generator, two counters with their gating circuits, delay line, etc. The control device is set for obtaining functions of the type $y = a^2 - (a - x)^2$. The reversible polarity counter takes into account the sign of the increments of the variables. By replacing one of the adders with the subtracter, relations of the type

Card 1/2

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Some types of functional digitizers

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y • $\sqrt{a-x}$ can be obtained. More complex functions can be simulated by combining in succession the devices described, e.g. the successive connection of the squaring and square-root extracting devices produces the solution to the equation of the circle, $y = \sqrt{r^2 - x^2}$. 13 figures. 6 references. Abstracter's note: Complete translation

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Card 2/2

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S/044/61/000/008/039/039 0111/0333

and a management of the property of the proper

AUTHOR:

Yermilov, B. L.

TITLE:

Digital analogoues

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 8, 1961, 50-51, abstract 8V305. ("Sb. rabot po vopr. elektromekhan. In-telektromekhan. AN SSSR", 1960, vyp 4, 202-213)

TEXT: It is mentioned that a high velocity and exactness of the calculations is demanded for the application of computing machines in systems of automatic control. In the last years, digital analogues of the continuously operating computing instruments are developed, whereby the representation of the variables with the aid of pulse count and code pulse is used. The non-linear functional transformations are realized in the digital analogues on the basis of methods of numerical integration. The author considers a number of digital analogues for operations: a digital analogues for the quadrature of the variable x(t); an analogue realizing the operation $y = a^2 - (a-x)^2$; a digital analogue for extracting the square root, an analogue for extracting the cubic root. Furthermore, the principle of the union of operational digital analogues for the performance of complicated function opera-

1/2

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810013-0"

Digital analogues

s/044/61/000/008/039/039 C111/C333

tions is considered. The author directs to the good chances for the use of digital analogues in automatic control systems in practice, among them for program controls for metal shearing workbenches.

[Abstracter's note: Complete translation.]

Card 2/2

CIA-RDP86-00513R001962810013-0

31014 8/573/61/000/005/004/023 D201/D305

9,7100

Card 1/4

Yermilov, B.L., and Radchenko, A.N. AUTHORS:

Digital analogues using shift registers with TITLE:

logic feedback

Akademiya nauk SSSR. Institut elektromekhaniki. SOURCE:

Sbornik rabot po voprosam elektromekhaniki. no. 5, Moscow, 1961. Avtomatizatsiya, telemekhanizatsiya

i pribosostroyeniye, 39 - 53

TEXT: In the present article, the method is considered of synthesizing digital analogues which, being slow in their operation, permit a decrease substantially, in the power consumption and their overall dimensions and an increase somewhat in their reliability. For the company unit it is proposed using a shift register with feedback logic. The input of the computing bloc consists of shift pulses, its capacity being determined by the logic structure of the feedback. A register with feedback may perform integration and other operations by means of a unitary code; thus the necessary re-

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3101) 8/573/61/000/005/004/023 D201/D305

Digital analogues using shift ...

quirement in digital analogues with logic feedback is the transformation of a ring code into a unitary one. The basic computing unit consists of two manitypes of registers with logic feedback as shown in Fig. 1 A and B. In circuit A the feedback is formed by the logic of

 $\psi_A = a\overline{d} + \overline{a}d$

ON THE PROPERTY AND A LOCAL DESIGNATION OF THE SECOND HEAD OF THE PROPERTY OF

and in that of circuit B by

 $\Psi_{\rm R} = \bar{a}b + a\bar{b}(c + d)$.

The register B is the reverse of A, with a period of 15. The two registers are connected together to form the basic element of a digital analogue. The first takes the role of an integrator, producing data in a ring code, the second – acts as a decoder, transforming the ring code into the unitary one. Squaring and taking of the square roots are discussed with the example of reproducing the function $z = x^2$ for squaring and $z^2 - x = 0$ for the square root. Their solution lead to the bloc diagrams of Fig. 4a and 4b, using the same register circuits as shown in Fig. 1 with delay lines between Card 2/4

31014 8/573/61/000/005/004/023 D201/D305

Digital analogues using shift ...

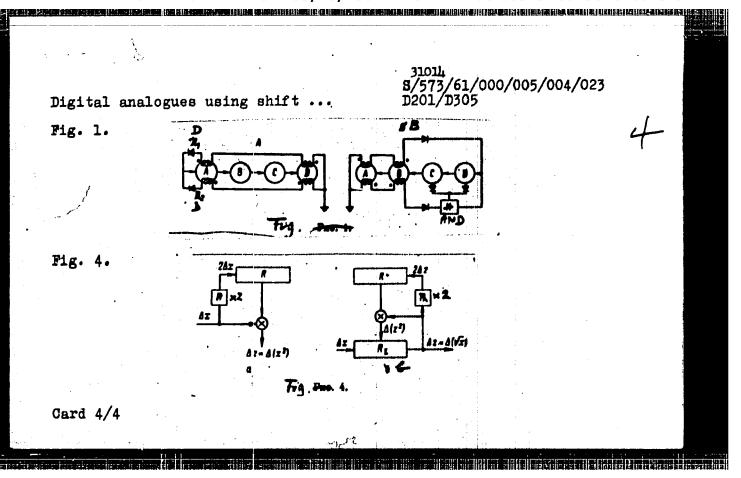
the stages. The maximum value of the input variable is stated to be $x_{max} < \frac{m+1}{2}$ for both analogues, where m is the capacity of the register. The digital analogue described may also reproduce sine and cosine functions as the result of solving the equation $\frac{d^2y}{dt^2} + y = 0$ with initial conditions $t_0 = 0$, $y_0 = R$ and $x_0 = 0$, where $x = \frac{dy}{dt}$. The solution of this equation is

 $x = R \sin t,$ $y = R \cos t,$

(13)

which corresponds in the plane xy to the equation of a circle with the center at the origin $x^2 + y^2 = R^2$. Practical recommendations are also given on the capacity of registers, the methods of their interconnections etc. There are 8 figures, 3 tables and 5 Sovietbloc references.

Card 3/4



16.6800 (1121, 1327, 1329)

_3**25**90 **5/569/61/00**3/000/009/011 D201/D305

AUTHORS:

Voronov, A.A., Yermilov, B.L., and Sokolov, G.N.

(USSR)

TITLE:

Certain problems of synthesis and analysis of digital

automatic control analogues

SOURCE:

International Federation of Automatic Control. 1st Congress, Moscow, 1960. Statisticheskiye metody issledovaniya. Teoriya struktur, modelirovaniye, terminologiya, obrazovaniye. Moscow, Izd-vo AN SSSR, 1961,

407 - 420

TEXT: The author analyze the following types of function generators: 1) Generation of polynomials. The prototype of this digital analogue may be said to be the circuit of a continuous analogue, with series connected r+1 integrators. With a $y^r(0) = \text{const.}$ input, such a circuit generates a polynomial of t of the r-th degree, whose coefficients depend on the initial values of integrands. By adding a feed-back, an arrangement may be obtained for reproducing Card 1/42

32590

S/569/61/003/000/009/011 D201/D305

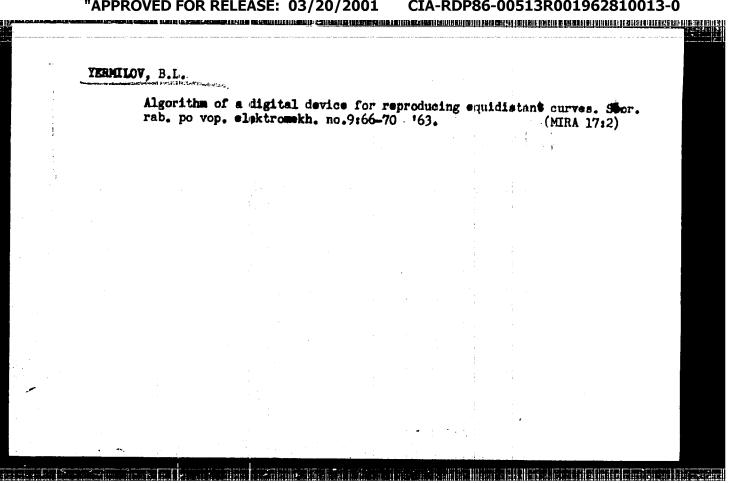
Certain problems of synthesis and ...

the inverse function $y = \sqrt{n}$. 2) Generation of function Axy + Bx + Cy. This problem may be solved using the circuit of B_aL_a Yermilov for multiplication by each other of two variables (Fig. 2). 3) Generation of circles. The example of digital analogue as evolved by G. N. Sokolov (Fig. 3) is considered. The generation of a circle may also be obtained by the method of B_aL_a Yermilov. This circuit (Fig. 4) solves

 $y = \sqrt{R^2 - x^2} . \tag{19}$

It is of interest in that the error, due to limiting the digits, does not exist. The cot is actually a combination of the squaring and root extracting circuits suggested by B.L. Yermilov and V.V. Semenov. The circuits described show how, from given properties of a problem, a substantial simplification of circuit and its number of components may be obtained. There are 2 tables, 5 figures and 6 references: 3 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: Anon. Computing machines. Mech. Eng., v. 73, p. 325-327, Apr. 1951; R.E. Sprague, Mathem. Tables and other Aids to Computation, no. 37, p.41-49,

Card 2/42



ACC NR. AP6025656

SOURCE CODE: UR/0413/66/000/013/0108/0109

m instrumente despendamente production de la companie de la compan

INVENTOR: Yermilow, B. L.

ORG: None

TITLE: A device for division of two variables given in the form of increments. Class 42, No. 183488 [announced by the Institute of Electromechanics, State Committee on Electrical Engineering, State Planning Commission SSSR (Institut elektromechaniki Goskomiteta po elektrotekhnike pri Gosplane SSSR)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966,

TOPIC TAGS: flip flop circuit, computer component, arithmetic unit

ABSTRACT: This Author's Certificate introduces a device for division of two variables given in the form of increments. The unit contains two digital integrators and an adder. To simplify the circuit, make the process reversible and ensure high accuracy in the result, the installation contains single-register integrators for the quotient and divisor with corresponding code transmission circuits, a cumulative adder, flip-flop and four diodes. The outputs of the code transmission circuits for the quotient and divisor are connected to the code inputs of the adder which accumulates the difference between the dividend and the product of the quotient by the di-

Card 1/3

UDC: 681.142.07

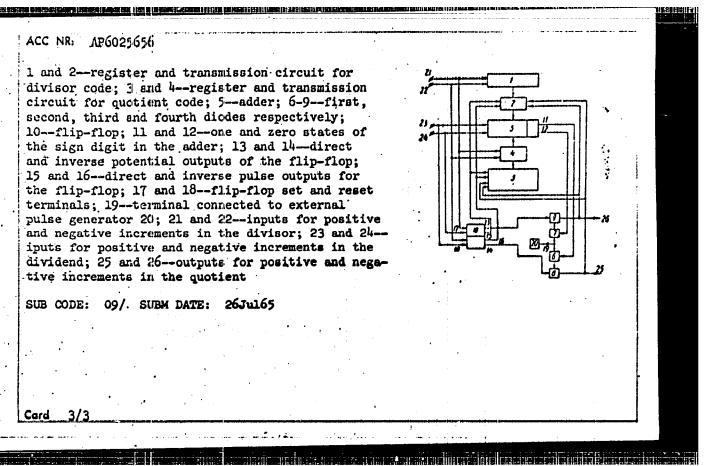
ACC NR: AP6025656

visor. The one and zero states of the sign digit in the adder are connected to the first inputs of the first and second diodes respectively, while the second inputs of these diodes are connected to an external pulse generator. The outputs of the first and second diodes are connected to the first inputs of the third and fourth diodes respectively, while the second inputs of these diodes are connected to the inverse and direct potential outputs of the flip-flop respectively. The direct and inverse pulse outputs of this flip-flop are connected to the inputs of the quotient register and divisor code transmission circuit. Also connected to these inputs are the outputs of the third and fourth diodes. The set terminal of the flip-flop is connected to the input for positive increments in the divisor and negative increments in the dividend. The reset terminal of the flip-flop is connected to these increments in the for these increments.

Card 2/3

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CIA-RDP86-00513R001962810013-0



Improvement of horing and blasting operations in Ufaley open- pit mines. Gor. zhur. no.5235 % '62. (MIRA 1621) 1. Ufaleyskiy nikelevyy savod. (Nickel mines and mining) (Blasting)	BERESH	HCHINOV, A.M., gornyy inzh.; YERMILOV, A.V.	
	Ì	Improvement of horing and blasting operations in Ufaley open- pit mines. Gor, zhur. no.5235 7 62. (MIRA 16:1)	
		1. Ufaleyskiy nikelevyy savod. (Nickel mines and mining) (Blasting)	

YERM[LOV, Bdris Pavloyich; ZAKATOV, Petr Sergeyevich; KUTUZOV, Mikhail

Biriforcvich; Ruravin, Mark Mikhaylovich; SAYEMIO, Deltriy Vasilyevich; TROITSKIY, Boris Vladimirovich; RUDSHTEYN, M.L., redaktor;
POVALYAIEV, P.I., redaktor; KUZ'MIN, G.M., tekhnicheskiy redaktor

[Geodesy] Geodeziia. Pod obshchei red. P.S.Zakatova. Moskva, Izdvo geodazicheskoi lit-ry. Pt. 1. 1954. 519 p. (MIRA 8:7)

(Geodesy)

YERMILOV, D. K.

USER/Medicine - Infectious Deseases (Veterimary)

1944-1642 des en reviendaments en sector de Legiera, Companya en la la Remanda transmité (1940) reconstributiva des constituents de la companya de la compan

My 51

"Some Femorian on the STI Vaccine," P. D. Shat'ko, K. I. Plotnikov, K. P. Voroshilov, Voterinarians, D. K. Elmilov, Homored Vet of the Republic

"Veterinariya" Vol EXVIII, No 5, pp 34, 35

Anti-enthrex veccine SFI was found to be reliable productic which confers immunity for 10-12 no. However, in 1950 forced vaccinations with STI were followed by infections with anthrex and death of some her se and cattle. Weather at their things infections occurred was not and there was great number of horse files (which are assumed to remember anthrex). Microscopic exam of means from compact of chuld calculate disclosed transmit anthrex). Microscopic exam of means from compact of chuld calculate disclosed noncapsular anthrex bacilli in 17.6% of the cases, while such headlift more present only in 13% of the cases in corpses of court animals infected with initial materials.

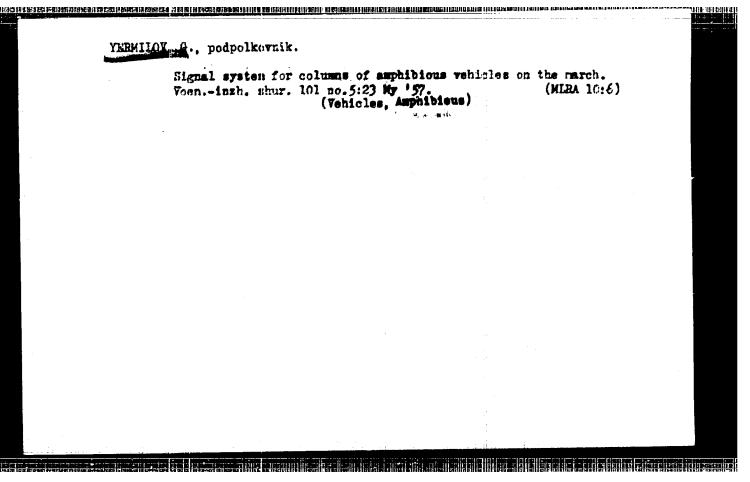
102177

SHAT'KO, P.D.; KORNILOVA, A.L.; YERMILOV, D.K. [deceased]

Natural foci of rabies in Movosirbirsk Province. Zhur.
mikrobiol., spid. i iman. 40 no.6:33-38 Je '63.

(MIRA 17:6)

1. Iz Novosibirskoy obltastnoy veterinarnoy bakteriologicheskoy laboratorii.



	Maria December 11 de la Prese les Reces	(3511) M. BESTESSUM STEDSTÜMESTI. AFFECTERATIONE FFFI.	- Charles and the second secon	Ell die Hann
ropyti	arrov 17 a YRRMTI.	OV, G. (Simferopol*		
KANOII	Headquarters or	office? Grashd. av	7. 22 no.7:26-27 J1 165. (MIRA 18:7)	
•			nogo podrazdeleniya (for Krechetov).	
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YERMILOV, G. A. (ENGR)

Dissertation: "An Investigation of the Process of Hackling With a Small Combing Roller for the Purpose of Determining Its Basic Parameters for the High-Productive Hackle of a Noncarding Machine." Cand Tech Sci, Moscow Textile Inst, 30 Jun 54, Vechernyaya Moskva, Moscow. 22 Jun 54.

SO: Sum 318, 23 Dec. 1954

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810013-0"

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ZOLOTAREV, Nikolay Il'ich; MEDMILOV, Grigoriy Andrayavich; ASTASHEV, A.G., retsenzent; KOPELEVICH, E.A., retsenzent; ISLANKINA, T.F., red.; MEDVELEV, L.Ia., tekhn.red.

[Machinery for combing cotton] Chesal'nye mashiny dlia khlopka.

Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po legkoi promyshl., 1959.

(MIRA 13:3)

(Gotton machinery)

YERMILOVA. Gal.; KORKEY, A.Ye.; LEVIN, P.I.; LEBEDEVA, I.N.; GRINGERI,
A.Ye.; FRISHMAN, T.A.

Effectiveness of some stabilisers in the extrusion of polypropylene
films and their aging. Plast. massy no.5x46-49 165.

(HIMA 18:6)

Yermilov, G. B. - "On the interrelationships of plants within a species", (With editorial comment), Yestestvomaniye v shkole, 1949, No. 2, p. 7-17.

SO: U-hll, 17 July 53, (Letopis 'Zhurnal 'myth Statey, No. 20, 1949).

1535-164-154 (1537 DESCRIPTION OF DE

YERMILOV, G. B.

Agriculture

Plant and light, Moskva, Gos. izd-vo sel'khoz. lit-ry, 1952.

Monthly List of Russian Accessions. Library of Congress October 1952 UNCLASSIFTED

DESCRIPENTAL DESCRIPTION OF THE PROPERTY OF TH

YERNILOY, G.B.

Seeds - Dissemination

Dissemination and concentration of seeds

Doll. AM SSSR 84,No. 3, 1952 red. 2 Dec. 1949

SO: Monthly List of Russian Accessions, Library of Congress, Sept. 1952 EDSK, Uncl.

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810013-0"

ERMILOV, G. B.

UESR/Agriculture - Flant Physiology

Card

: 1/1

Authors

: Ermillov, G. B.

Title

* Effect of the short day on the growth and cold resistance of red clover

Periodical

Dokl. AN SSSR, 96, Ed. 5, 1061 - 1064, June 1954

Abstract

: The experimental material shows that the growth of didver plants during a day time cycle of less than 12 hours leads to a decrease in clover harvest in the following year. The growth of clover plants during short days results in reduction in the number of winter plants and reduces the possibility of the buds and stalks on the plant to grow again.

Seven references. Tables.

Institution : Acad, of Sc. USSR, Ural Branch, Biological Institute

Presented by : Academician, A. L. Kursanov, March 16, 1954

YERNILOV, O.B.; ZABLUDA, G.V., professor, otvetstvennyy redsktor

[Biological principles in sowing red clover] Biologicheskie cenovy poseva krasnogo klevera. Sverdlovsk, Akadesiąa nauk SSSR, Ural'skii filial, 1956. 72 p.

(Glover)

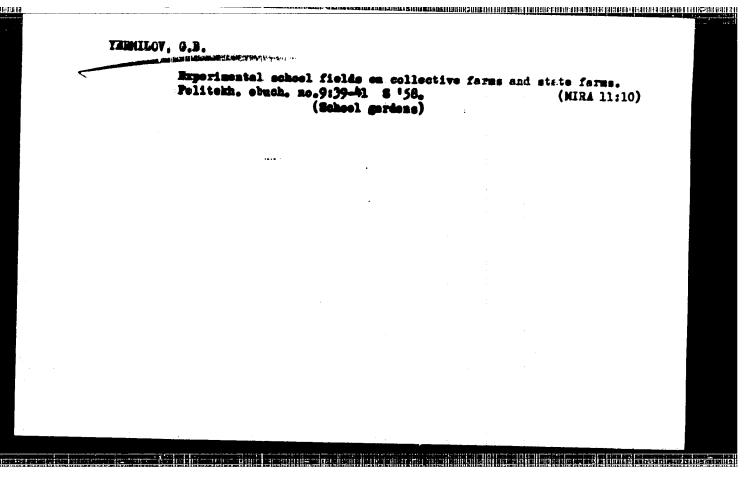
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) FUK KELEASE: US/2U/2UU1 SAS III SAS II SA WEX HELDER TERMILOY, G.B. Productivity of corn leaves in the Mon-Chernozen sone [with summary in Hnglish]. Fixiol, rast. 4 no.6:542-547 M-B '57. (NIRA 10:12) 1. Institut biologii Ural'skege filiala AN SSER, Sverdlovsk.
(Corn (Maise)) (Leaves)

YERHILOY, G.Z. Vater cycle of germinating red clover seeds [with summary in Raglish]. Fixiol. rast. 5 no.31245-252 My-Je '58. (MIRA 11:6) 1. Ural'skiy filial Akademii mank 2828, Sverdlovsk. (Glover) (Germination) (Soil moisture)



THRMILOY, G.B. Interrelationships of Trifolium sativum (Grome) plants during their first year of life. Bot.shur. 43 no.11:1633-1638 H 158. (MIRA 11:11) 1. Ural'skiy nauchno-issledovatel'skiy institut sel'skogo khosyaystva, Sverdlovek. (Glover) (Plants, Space arrangement of)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810013-0"

YERMILOVI G.B.

AUTHOR:

Yermilov, G. B.

20-3-52/59

THE CONTROL OF THE CO

TITLE:

On the Problem of the Physiology of Plant Flowering (K voprosu o fisiologii tsveteniya rasteniy).

PERIODICAL:

Doklady AN SSSR, Vol. 118, Nr 3, pp. 598-600 (USSR) 1958

ABSTRACT:

The transition of the plants from the vegetative stage to flowering and the conditions of this transition had since a long time attracted attention. However, the importance of the individual characteristic features of the plants itself has hitherto been taken into account only to a small extent especially the influence of these properties which depend on the seed quality has been researched little. The seeds, however, are never equal within the range of an ear or of a grain (references 1,2). The author observed the consequences of the characteristic features of the seeds on the details of flowering in seeds of various ripeness. 5 maise sorts were sowed and the seeds were gathered a) at the begin of , and b) during the stage of milk ripeness, and c) during the stage of growth ripeness. All these seeds had a much lower weight than normally matured seeds (table 1). The imperfect development of the seeds

Card 1/4

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810013-0"

On the Problem of the Physiology of Plant Flowering

20-3-52/59

prevented neither the good development of the prop nor the development of completely normal plants from them. The differences in germination amounted to 2 days at most. The equality of the plants before the harvest is shown in table 2, Since the summer of 1956 was cool the flowering of even the earliest sorts began only in the end of July. Table 3 shows that the time of flowering of male as well as of female inflorescences is to a great extent influenced by the maturity of the seeds. The flowering began 4-12 days somer in the case of plants from more mature seeds and took a more uniform course. The plants from less ripe plants were taller. This shows indirectly their slower generative development (table 2). The above mentioned results show that the degree of ripeness of the seed does not exercise any considerable influence on the growth of the vegetative parts of maise plants (references 4,5). The mentioned influence on the begin of flowering is only possible if plants from seeds of different degrees of ripeness react differently to one and the some environmental conditions, in other words, if their metabolism takes a somewhat different course. Furthermore it can be concluded from the results that the not simultaneous flowering which can always be observed

Card 2/4

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810013-0"

On the Problem of the Physiology of Plant Flowering

20-3-52/59

under field conditions can be explained not only by the differences of the microconditions of growth, but also by the individual characteristic features of the seeds from which the plants are grown, especially by the degree of ripeness of the first. This might be one of the reasons of the long known importance of using greater and equal seeds (reference 6) for sowing. Here not only the greater stock of substance, but also the evenness of the seeds with respect to the development of the embryo and to the overall maturity as well as with respect to the capability of a more uniform reaction to the environmental conditions can play a rôle, especially to the conditions which determine the development processes. The influence of the individual characteristic features of the seeds must be taken into account in physiological experiments concerning their flowering. Especially the influence of the state of the seeds (of their ripeness and chemical composition) must be taken into account in the study of the conditions which are important for the development of the plants.

Card 3/4

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On the Problem of the Physiology of Plant Flowering

20-3-52/59

There are 3 tables, and 6 references, all of which are

ASSOCIATION: Institute for Biology of the Ural Branch AN USSR

(Institut biologii Ural'akogo filiala Akademii nauk SSSR)

PRESENTED:

August 23, 1957, by A. L. Kursanov, Academician

SUBMITTED: August 20, 1957

AVAILABLE:

Library of Congress

Card 4/4

TERNILOW G.B., kand.biolog.nsuk, starshiy nauchnyy sotrudnik; GREENEY, B., red.; PAL'MINA, B., tekhn.red.

[Red clover] Krasnyi klever. Sverdlovsk, Sverdlovskos knishnoe isd-vo, 1959. 120 p. (MIRA 14:3)

1. Ural'skoye otdeleniye Mauchno-issledovatel'skogo institute sel'skogo khosyaystva (for Termilov). (Glover)

YERMILO	DV. G.B.	
,	Biological differences in corn varieties. Fixiol.rast. 6 no.3; 361-362 Ny-Je 59. (MIRA 12:8)	
	1. Ural Scientific Research Agricultural Institute, Sverdlovsk. (Corn (Maise) Varieties) (Plants Transpiration)	

Method of observing the gr no.6:805-807 Je '59. (Corn (Maize))	rowth of the corn plant. Bot.zhur. 44 (MIRA 12:11) (Growth (Plants))
•	
,	

17(4),30(1) AUTHOR:

Yermilov, G. B.

80V/20-125-2-52/64

TITLE:

On the Water Balance of Germs During the Pirst Days of Their Life (O vodnom rezhime prorostkov v pervyye dni ikh zhizni)

PERIODICAL:

ABSTRACT:

Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 2, pp 420-423 (USSR)

The period from seed germination to the appearance of the germ on the surface belongs to the most critical periods in the life of plants (Ref 1). The physiology of germination and the environmental influence on this stage, however, belong to the most unsatisfactorily investigated problems (Refs 2,7). In order to study the aforesaid problem, the author applied Pil'ter's principle (according to reference 2). The seed swelling ceased in a certain stage which corresponded to the water amount assimilated by the seed or consumed by the germ. Seeds of summer wheat "Moskovka", local summer vetch, peas "Kapital" and Indian corn VIR-42 were sown in glasses with sand in a depth of 5 cm. Tap water in quantities of 5, 7, 9, and 11% of the total capacity of humidity was filled in and no water was added afterwards. As soon as equilibrium between the water in the sand and in the seed or germ had

Card 1/4

On the Water Balance of Germs During the First Days SOV/20-125-2-52/64 of Their Life

been established after 8-10 days, the germs were taken out, sorted and divided into three parts: cotyledons (endosperm), germ (coleoptiles), and root. The seed (appearance of the root) begins to germinate as soon as the seed has attained a certain degree of saturation with water (Table 1). It is not the absolute assimilated quantity of water which is determining in this respect, but the degree of saturation. It may be expressed by the water content in % of the absolute dry weight of the seed. In the case of the vetch it amounts to ~110 %, with peas it is 85 %, with Indian corn it is 38 %, with wheat it is 57 %. In the case of water lack the small seeds will germinate first since they will have attained the necessary degree of saturation more rapidly with the same assimilated quantity of water. The cotyledons and the endosperm are important to the water supply of the root and germ during the first days of life. The quantity of water assimilated until the moment when the germ appears is insufficient for the growth of the latter (Table 2). The newly assimilated water is conveyed primarily into the germ (coleoptiles) and is concentrated there (Table 3). Figures 1, 2, and 3 show

Card 2/4

On the Water Balance of Germs During the First Days SOV/20-125-2-52/64 of Their Life

the dependence of the growth of roots and germs on the quantity and content of water contained in them. With the growth of coleoptiles the ratio of growing and mature parts varies (Table 4). Table 5 shows the dependence between the water balance of coleoptiles and the particularities of growth of their individual parts. The length is closely connected with the water balance. The length depends less on the saturation of the germs. In the case of vetches and peas the length of germs depends to a certain extent on the saturation of cotyledons, which does not hold for Indian corn. The length of the root depends less on the quantity of water and does not depend on the saturation. There is no connection between the saturation of the roots and germs on the one hand and their dry weight on the other (pea, vetch), or there is only a small one (Indian corn). There are 3 figures, 5 tables, and 7 Soviet references.

Card 3/4

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810013-0"

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On the Water Balance of Germs During the First Days SOV/20-125-2-52/64 of Their Life

ASSOCIATION: Ural'skiy nauchno-issledovatel'skiy institut sel'skogo khozya-

ystva (Ural Scientific Research Institute of Agriculture)

PRESENTED: December 9, 1958, by A. L. Kursanov, Academician

SUBMITTED: December 8, 1958

Card 4/4

Some characteristics of the absorption of water by seed corn. Fiziol.rast. 7 no.1:49-56 '60. (MIRA 13:5) 1. Flant Physiology Laboratory of Ural Scientific Research Agricultural Institute, Sverdlovsk. (Corn(Maise))

Effect of gibberellic acid on seed germination and seedling resistance in corn. Isv. AN SSSR. Ser. biol. 26 no.1:33-39 Ja-F '61.

1. The Ural Branch of Abademy of Sciences of the U.S.S.R., Sverdlovek.

(GIBERRELLIC ACID) (CORN (MAIZE))

(GERMINATION)

YERMILOV, G.B. Effect of the Internal processes in plants on the productivity of corn leaves. Fiziol.rast. 9 mc.4:393-397 '62. (MIRA 15:9) 1. Ural'skiy filial Akademii nauk SSSR, Sverdlovsk. (CORN (MAIZE)) (PHOTOSYNTHESIS)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810013-0"

	Eirect of growin Bot. zhur. 48 no (Corn (g conditions on 1 .4:585-588 Ap 63 Maize))	he morpholo (Sowing	gy of	corn seedlings. (MitA 16:5)	
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BAI YUZEK, F.V.; BURMISTROV, M.I.; DZUTSOV, N.K.; YERMILOV, (W.I.; KARIMOVA, T.V.; SKORIK, V.I.; UVAROV, B.S.; SHANIH, Yu.N.; SHAWRINA, T.M.

Artificial circulation in surgery of the heart and large vessels.

Grud.khir. no.4:33-39 Jl-Ag '62. (MIRA 15:10)

J. Iz kliniki khirugii usovershenstvovaniya vrachey No. 1 (nach. deystvitel'nyy chlen AMW SSSR prof. N.A. Kupriyanov) Vyvennomeditsinskoy akademii iseni S.M. Kirova. Adres avtorov: Leningrad,
K.-9, pr. K. Marksa, d. 5/20 Khirurgicheskaya klinika dlya
usovershenstvovaniya vrachey No. 1.

(PERFUSION PUMP (HEART.)

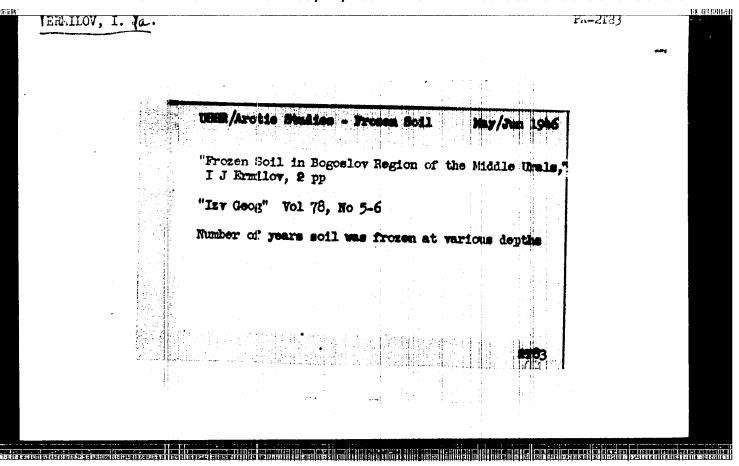
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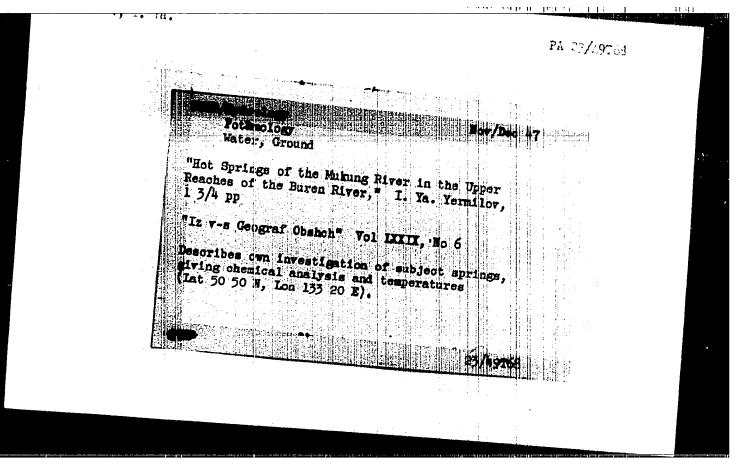
SKLYAROV, Yu.A.; POLYAKOV, V.M.; YERMILOV, G.P.

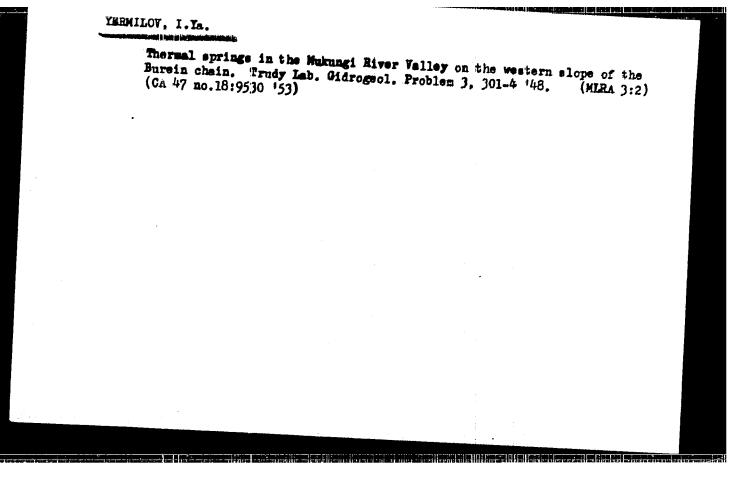
Photographic observations of minor planets and cf Seki-Lines comet in Saratov. Biul. Inst. teor. astron. 9 no.8:576 64.

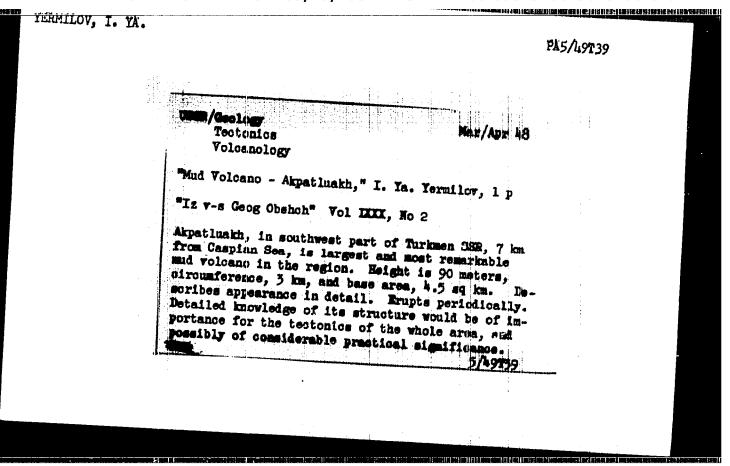
(MIRA 17:12)

1. Saratovskiy pedagogicheskiy institut i Saratovskoye otdeleniye Vsesoyuznogo astronomo-geodezicheskogo obshchestva.





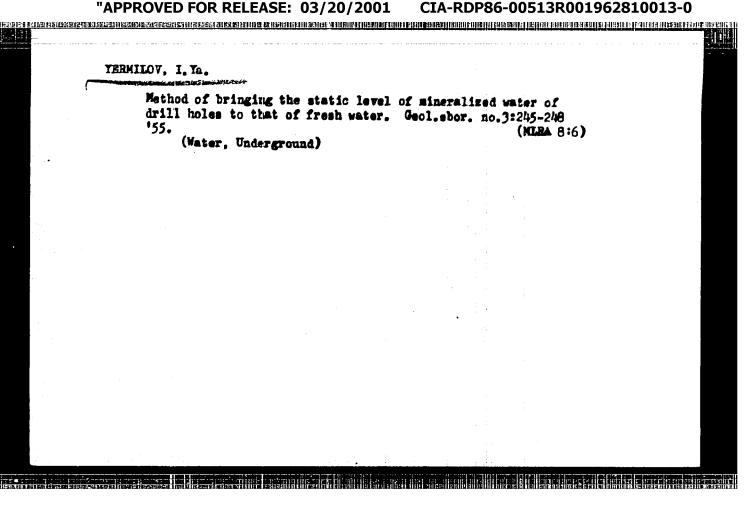




YERMILOV, I. YA.

20569 YERMILOV, I. YA. Formy eclovoy akkumulyatsii v solonchakovykh pustynyakh zapadnoy turkmenii. Izvestiya vsesoyuz. geolr. o-va, 1949, vyp. 3, s. 327-33.

SO: LETOFIS ZHURNAL STATEY - Vol. 28, Moskva - 1949



TERMILOY, I. Ya.

的建排結

Original forms of sculptural microrelief on the Mangrehlak Peninsula. Geog.sbor. no.10:172-174 58. (M.IRA 12:1) (Mangrehlak Peninsula-Geology, Stratigraphic)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810013-0"

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YERMILOV, L.P.

持续操码

Some changes in the blood coagulation system in arteriosclerosis of the coronary arteries of the heart. Kardiologiia 2 no.1:37-43 Ja-F 162.

1. Iz kafedry fakul tetskoy terapii (zav. - prof. T.S. Istamanova) I Leningradskogo meditsinskogo instituta imeni akademika Pavlova. (BLOOD -- COAGULATION) (ARTERIOSCLEROSIS)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810013-0"

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YERMILOV, L.P.

Correlation of the level of prothrombin and fibringsm in the blood plasma in stenocardia and myocardial infarct. Sowwed. 26 no.10:14-17 0 '62. (MIRA 15:12)

l. Iz kafedry fakul tetskoy terapii (zav. - prof. T.S.Istamanova) I Leningradskogo meditsinskogo instituta imeni I.P.Pavlova. (PROTHROMBIN) (FIBRINOGEN) (ANGINA FECTORIS) (HEART-INFARCTION)

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SOV/169-59-7-7197

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 7, p 109 (USSR)

AUTHOR:

Hailus R

Yermilov, S.N.

TITLE:

On the Problem of the Influence of Advection on the Temperature Distribution Near a Base Surface

PERIODICAL:

Tr. Leningr. gidrometeorol. in-ta, 1958, Nr 8, pp 169 - 180

ABSTRACT:

The non-stationary problem of air-mass modification under the effect of turbulent mixing along the vertical and temperature transfer along the horizontal by an orderly velocity of wind wind (advection) is discussed. According to this, the equation of the problem has the form:

<u> 76</u> 9 T

 $= \frac{\partial}{\partial z} \quad k \quad (z) \quad \frac{\partial \gamma}{\partial z} ,$

where: T is the temperature, t is the time, u is the velocity of wind, directed along the horizontal coordinate axis x, k(z) is the turbulence ratio of thermal diffusivity, which is assumed to be a power function of the altitude z. The velocity of wind u is assumed to be constant. The following data are considered to be

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On the Problem of the Influence of Advection on the Temperature Distribution

given as boundary conditions: the temperature at the base surface z=0, the distribution of temperature within the quadrant x > 0, z > 0 at the initial instant t = 0, and the distribution of temperature along the "initial half-ray" x = 0. The solution is sought, which is limited for $z=\infty$. The problem in such a formulation was solved earlier by M.Ye. Berlyand (Prediction and control of the thermal regime of the atmosphere layer near the earth surface. Gidrometeoizdat, 1956); who applied the twofold operational transformation with respect to variables t and κ . The same solution is obtained in the present reviewed work, but by an other method and accordingly in an other form. Namely, the author following the idea and guidance of D.L. Laykhtman after having used the operational transformation with respect to variable t, employed the integral Gruenberg transformation with respect to variable z. In consequence, the author obtains the solution composed by simple and double integrals, and some of the quadratures must be carried out in the complex range according to the Riemann-Mellin-formula. The interpretation of a series of interesting special cases is original in the work. In section A the author discusses the event when the temperature of

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SOV/169-59-7-7197

On the Problem of the Influence of Advection on the Temperature Distributed Near a Base Surface

the base surface does not vary in time. In this case the solution is represented by a degenerated hypergeometric function. The computations are performed for three particular subcases:

If
$$k_0 = 0.2 \text{ m}^2/\text{sec}$$
, $u = 2 \text{ m/sec}$
III $k_0 = 0.3 \text{ m}^2/\text{sec}$, $u = 2 \text{ m/sec}$
IIII $k_0 = 0.3 \text{ m}^2/\text{sec}$, $u = 5 \text{ m/sec}$

(k_0 is the value of the ratio of the turbulent thermal diffusivity at an altitude of 1 m). It is shown that the thickness of the boundary layer is greater for higher values of the turbulence ratio (case II relatively to I) and for lesser velocities of wind (case II relatively to III). For the subcase I the variation of the turbulent heat current along the horizontal is plotted; this current decreases with an increase in the distance from the initial line x=0, and the decrement rate diminishes with an increase of x. In section B the event is investigated when the temperature of the base surface is not depending on x and varies discretely in time.

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On the Problem of the Influence of Advection on the Temperature Distribution Near a Base Surface

The author assumes that the temperature on the surface z=0 is equal to some constant value different from the initial value during a certain interval of time $t_1 \le t \le t_1 + \Delta$, but during the rest of the time it is equal to the initial value. In this case the solution is expressed by a degenerated hypergeometric and incomplete function. For this case, the detailed computation of one example is performed, which makes it possible to trace how the temperature at the various altitudes and various distances follows the temperature variation in the base surface. Particularly, it is ascertained that the influence of the variations of the temperature in the base surface extends practically to small altitudes: Already at the 200 m level, this influence is hardly noticeable. In so far as the real variation of the temperature in the surface z=0 can be approximated by a multitude of discrete variations, so the given example has also methodical significance.

L.S. Gandin

Card 4/4

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810013-0"

sov/169-59-6-6016

Translation from: Referativnyy zhurnal, Geofizika, 1959, Nr 6, p 88 (USSR)

AUTHOR:

Yarmilov, S.N.

TITLE:

On the Interconnected Transformation of Temperature and Humidity

Fields in the Layer of Atmosphere Near the Bround

PERIODICAL:

Uch. zap. Ivanovsk. gos. ped. in-t, 1958, Vol 18, pp 231 - 244

ABSTRACT:

The temperature and humidity variation in a moving air mass is described by a known system of differential equations and the formal solution of this system is performed. The author proposes some simplification of the obtained formulae for a special case of the problem in question, assuming the variations of temperature and humidity to proceed in jumps. The calculation

results of one example are cited.

M.Ye. Berlyand

Card 1/1

YEMMILOV, S.N., Cand Phys-Meth Sci (disa) Certain quentions of the theory of the transformation of Air masses in the near ground layer of the atmosphere. Leningrad, 1960, 12 pp (Main Geophysical Observatory im A. I. Voyeykov) (KL, 34-60, 119)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810013-0"

YEFMILOV, S.N.

Temperature-field transformation above an inhomogenous underlying surface. Trudy Len.gidromet.inst. no.18:184-190 63.

(MIRA 18:1)

Temperature-field transformation and moisture above an inhorogenous underlying surface. Ibid::191-201

DUNIN-BARKOVSKIY, Lev Valerianovich; CHLIER, S. Tu., doktor geograf.

nauk, red.; YEMILOV, L.T., red.; PECHREKIN, I.V., tekhn.red.

[Physicogeographical principles of planning irrigation systems; soning and water balance of the irrigated territory] Fisikogeograficheskie cenovy proektirovania crositel'nykh sistem; reiomirovania i vodnyi belans oroshesmoi territorii. Pod red.

S.IU. dellera. Moskva, Isd-vo M-va sel'skogo khoz. SSSR, 1960.

166 p. (Irrigation)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810013-0"

MERENOV, Igor' Vladimirovich; SHMUKER, Anatoliy Lazarevich;

YKRMILOV, L.T., kapitan 2 ranga, red.; KALACKEV, S.G.,
tekhn. red.

[Inflatable lifesaving apparatus for use at sea] Naduvnye
spasatel'nye sredstva na more. Moskva, Voenizdat, 1963. 101 p.

(MIRA 16:7)

(Lifesaving apparatus)

BOGDANOV, Arkadiy Mikhaylovich; YERMILOV, L.T., red.

[Cargo transshipment to ships at sea] Peredacha gruzov korabliam na khodu. Moskva, Voenizdat, 1964. 92 p.

(MIRA 18:1)

GORDEYEV, Leonid Ivanovich; ZAKOLODYAZHNYY, Vitaliy Invliction; SUVOPOV. Yevgeniy Fedorovic; FUFAYEV, Vedin dlekseyevich; CHUROV, Yevgeniy Fetrovich; YERMILOV, L.T., red.

[Space beacons in navigation] Kosmicheskie maiakl v navigatsii. Moskva, Voenizdat, 1964. 201 p. (MIRA 17:9)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810013-0"

KABOZOV, S., kand.sel'skokhos.nauk; TARASINSKIY, G.; YERMILOV, N.

Uning synthetic urea and manganese in mixed feeds. Muk.-elev.
prom. 25 no.7:21-22 Jl '59. (MIRA 12:11)

1. Glavnyy inshener Orenburgskogo kombikormovogo savoda (for Turasinskiy). 2. Machal'nik otdela tekhno-khimicheskogo kontrolya (for Termilov).

(for Termilov).

(Feeds) (Urea) (Manganese)

Yeamilou, N. PETROVSKIY, A., nauchryy sotrudnik; TARASIESKIY, G., inchener; YERMILOV, N., AND PROPERTY STATES AND PARTY OF THE PARTY O inchener. Measuring out components of mixed feeds. Muk.-elev. prom. 22 no.8: (MLRA 10:8) 22-25 Ag 156. 1. Vsesoyusnyy mauchno-issledovatel'skiy institut serna i produktev yego pererabutki (for Petrovskiy). 2. Chkalovskiy kombikermevyy savod (for Tarasinskiy and Termilov). (Fooding and fooding stuffs)

Improve planning of shep work. Shel.der.transp.36 ne.12:69-71 D '56.
(MIMA 10:2)

1. Sekretar' partiyange kemiteta parovennego depo Ulan-Udakoy Vetetchio-Sibirakoy deregi (for Termiley). 2. Glavnyy bukhgalter depo Ulan-Udakoy Vestechio-Sibirakoy deregi (for Semenov).

(Locenetives-Repaire)

SOV/124-57-4-4454

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 84 (USSR)

AUTHORS:

/ B Milin, # V., Yermilov, N. D.

TITLE:

The Effect of Turbulence on the Conductivity of Air Under the Action

of Electric Fields (Vliyaniye turbulentnosti na provodimost'

vozdukha pod vozdeystviyem elektricheskikh poley)

PERIODICAL: Uch. zap. Kirovskiy ped. in-t, 1954, Vol 1, Nr 8, pp 21-28

ABSTRACT: A presentation and analysis of the results of special experiments on the artificial ionization of atmosphere performed primarily in order to study the effects of turbulent mixing on the electrical conductivity of the atmospheric surface layer. The method of artificial ion dissemination is suitable for the evaluation of the turbulent exchange coefficient in the surface layer of the atmosphere: A definite relationship exists between the turbulent exchange coefficient (with a given stratification of the ground layer) and the ratio between the conductivity values of two levels situated at an equal distance from a linear ion source. Similar experiments carried out in 1954 demonstrated that the turbulent exchange coefficients determined on the basis of ion-disseminator data and gradient observations have fairly close values and

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SOV/124-57-4-4454

The Effect of Turbulence on the Conductivity of Air Under the Action (cont.)

exhibit a consistent behavior in the course of different experiments. Apparatus employed for the artificial ion dissemination and the measurement of conductivity is described. Experiments were also conducted with a plane (vertically arranged) source of ions.

L.S. Gandin

Card 2/2

YERMILOV, ND.

USSE/Physics of the Atmosphere - Atmospheric Electricity, M-

Abst Journal: Referat Zhur - Fizika, He 12, 1956, 36201

Author: Yermilov, N. D., Krasnev, B. I.

Institution: Mone

Title: Certain Refigements to the Theory of the Vertical Distribution of the Intensity of the Atmospheric Electric Field in Hermal Days

Original

Periodical: Uch. zap. Kirovskovo ges. ped. in-ta, 1955, No 9, 171-182

Abstract: An analysis is made of the variation of the intensity of the electric field with altitude in days characterized by weak winds and insignificant cloudiness in the absence of precipitation. This M. 1. The entire problem is solved under the following atmosphere is arbitrarily divided into a surface layer and the fired atmosphere. 2. In the surface layer the electric conductivity in constant, and in the free atmosphere it varies exponentially $\lambda_z = \exp[\alpha(z-H)]$, where λ_z is the electric conductivity at alti-Thide z, α a constant characterising the variation of λ with altitude,

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USSE/Physics of the Atmosphere - Atmospheric Electricity, M-

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 36201

Abstract: and H is the height of the surface layer. 3. The coefficient of turbulent mixing k(z) varies linearly with altitude in the surface layer $k(z) = k_1 z$, and remains constant outside the surface layer $k(z) = k_1 H$. 4. Under nermal conditions the one-dimensional Poisson equation $d^2v/dz^2 = 4\pi\rho$ holds at any altitude (v is the potentialof the electric field and ρ is the charge density). 5. At the boundary between the surface layer and the free atmosphere, the distribution of the space charge has no extremum, i.e., $d\rho/dz \neq 0$. Under these conditions, the following equations are determined for the variation of the field intensity with altitude:

 $y(z) = \frac{1}{26H} (\sqrt{8} + 1)D(zk_1(D(z) - (\sqrt{8} - 1)H^{-2D}D(zk_1(D(z)))...$

 $-\exp\left(\overline{z}\left(H-z\right)\right)\left(\frac{u}{u}\right)\exp\left(\overline{z}\left(H-z\right)\right)$ are the field intensities at altitude z and at the earth's surface;

 K_1 and I_1 are the McDonald and Bessel functions; $D = 4 \sqrt{n\lambda/k_1}$; $\Delta = 28 \, \mathrm{H}^{-D} + \sqrt{8} + 1$, and $\delta = 4 \sqrt{\lambda/k_1} \mathrm{H}^2$. These relationships can be used to determine the coefficient of turbulence.

Card 2/2

AUTHORS:

Yermilov, N. G., Technician

SOV/91-59-2-22/33

TITLE:

A Device for the Impregnation of Wood under Local Conditions

(Ustanovka dlya propitki drevesiny v mestnykh usloviyakh)

PERIODICAL:

Energetik, 1959, Nr 2, pp 29 - 31 (USSR)

ABSTRACT:

The author describes a diffusion impregnation process of wood with creosole oil by a locally constructed (at a cost of 2,500 rubles) impregnating device. Impregnation of one wood item took 60 - 70 min. The depth of penetration of the antiseptic reached 25 - 35 mm. Two workers operating the device impregnated 2m3 of wood per workday. There are two photos

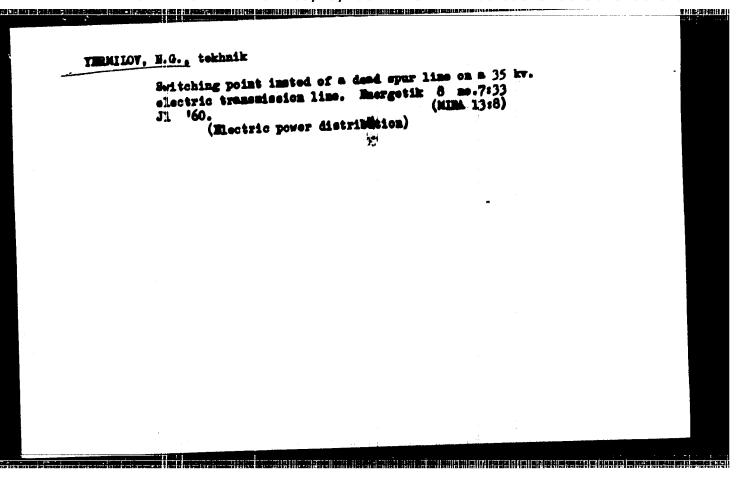
and 1 diagram.

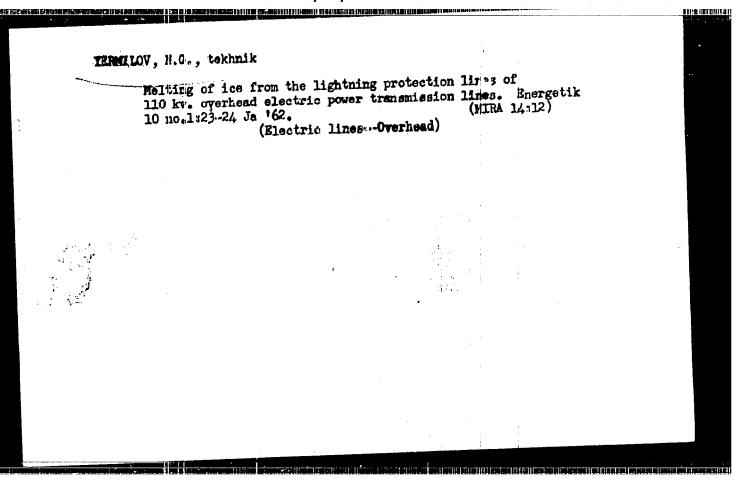
Card 1/1

ELVELEV, Alekeey Petrovich; KUMMERSOV, P.V., red.; THEMILOT, F.O., spetsred.; POSCALEVA, A.A., tekhn.red.

[Precast construction and its economic effectiveness] Shornoe stroitel stvo 1 ego ekonomicheskais effektivnost 1. Moskva, Gosplenisdat, 1960. 157 p. (MIRA 13:7)

(Precast concrete construction)





ANICHKOV, M.N. (Lemingrad, Mokhovaya ul., d.28,kv.26); BALYUZEK, F.V.;
BURNISTROV, M.I.; PISAREV, Yu.F.; YERMILOV, N.I.

Resection and trunsplantation of a segment of the arch of the arch of the with its branches (the carotid and subclavian arteries). Grud.

(MIRA 16:5)

khir. 3 no.1:9-13 Ja-F '61.

1. Is khirely the deystyled and sovershenstvovaniya vrachey
No.1 (machal mik - deystyled any chiem ANM SSSR prof.
P.A.Kuprigamov) Voyenno-meditainskoy ordena Lemina akademii
immii S.M.Kirova.

(EAROTID ARTERY—SURGERY)

(ACRIA—SURGERY)

BALYUZEK, P.V., kand.med.nauk; SHANIN, Ku.W., kand.med.nauk; BURMISTROV, M.I.; YERMILOV, N.I.; KARIMOVA, T.V.

Use of extracorporeal circulation in experimental open heart surgery. Vest.khir. 87 no.11:24-30 N '61. (MIRA 15:11)

1. Iz 1-y khirurgicheskoy kliniki usovershenstvovaniya vrachey i kafedry anesteziologii (nach. - prof. P.A. Kupriyanov) Voyenno-meditsinskoy ordena Lenina akademii im. S.M. Kirova.

(PERFUSION FUND (HEART))

OTCHENASHENKO, I.M.; NEYMARK, V.M.; YERMILOV, N.K.; YEGOROV, B.N.

Volume microdilatometer for investigating phase transitions.
Zav. lab. 29 no.10:1260-1261 *63. (MIRA 16:12)

1. AN SSSR i Institut obshchey i neorganicheskoy khimii imeni N.S. Kurnakova.

B/076/62/036/001/011/017 B124/B110

AUTHORS: Yegorov, E. N., Yermilov, N. K., and Otchenashenko, I. M.

TITLE: New thermal setup for phase analysis of small specimens

PERIODICAL: Zhurnal fizicheskoy khimii, v. 36, no. 1, 1962, 170-175

TEXT: A new setup securing uniform heating and cooling over a wide temperature range at an adjustable rate is described. The setup, designed for use in thermal analysis, was developed at the Design Office mentioned under Association. A block diagram, including a thermal block (Fig. 2), under Association. A block diagram, including a thermal block (Fig. 2), under Association. A block diagram, and an CH-120 (SN-120) voltage furnished by the factory "Komega", and an CH-120 (SN-120) voltage regulator, is shown in Fig. 1. Uniform temperature changes over the range from -150 to 350°C at rates between 0.1 and 6.4°/min can be obtained range from -150 to 350°C at rates between 0.1 and 6.4°/min can be obtained the thermal block is an enclosed all-metal stainless steel chamber with its upper flange 4 fastened to bearing disk 3. A platinum thermocouple is provided at the bottom to control the temperature within the block. Further components of the thermal block are: electrical heater 15, metallic holder 2, heat reflectors 5, and measuring rod 9. All thermal

Card 1/80.